

## UTAH DIVISION OF OIL AND GAS CONSERVATION

REMARKS: WELL LOG ☒ ELECTRIC LOGS ☐FILE ☒ WATER SANDS ☐ LOCATION INSPEC: ☐SUB. REPORT/abd. ☐

011320

DATE FILED 6-3-75

LAND: FEE &amp; PATENTED

STATE LEASE NO.

PUBLIC LEASE NO.

INDIAN 14-20-603-353

DRILLING APPROVED: 6-4-75

SPUDDED IN: 7/29/75

COMPLETED: 11/25/75 PUT TO PRODUCING: 11/25/75

INITIAL PRODUCTION: 118 BOPD; 109 MCF/D;

GRAVITY A.P.I. 41

GOR: 924

PRODUCING ZONE: 5594'-5607' Desert Creek

TOTAL DEPTH: 5785'

WELL ELEVATION: 4793' Gr; 4808' KB

DATE ABANDONED

FIELD: Aneth

UNIT: Ratherford

COUNTY: San Juan

WELL NO. Ratherford 18-23

API NO: 43-037-30244

LOCATION 2385'

FT. FROM ~~XX~~ (S) LINE.

2040'

FT. FROM ~~XX~~ (W) LINE.

NE NE SW "

1/4 - 1/4 SEC. 18

TWP.

RGE.

SEC.

OPERATOR

TWP.

RGE.

SEC.

OPERATOR

41 S

24 E

18

PHILLIPS PETROLEUM

## GEOLOGIC TOPS:

QUATERNARY	Star Point	Chinle	Molas
Alluvium	Wahweap	Shinarump 2366'	Manning Canyon
Lake beds	Masuk	Moenkopi	Mississippian
Pleistocene	Colorado	Sinbad	Humburg
Lake Beds	Sego	PERMIAN	Brazer
TERTIARY	Buck Tongue	Kaibab	Pilot Shale
Pliocene	Castlegate	Coconino	Madison
Salt Lake	Mancos	Cutler	Leadville
Oligocene	Upper	Hoskinnini	Redwall
Norwood	Middle	DeChelly 2665'	DEVONIAN
Eocene	Lower	White Rim	Upper
Duchesne River	Emery	Organ Rock 2825'	Middle
Uinta	Blue Gate	Cedar Mesa	Lower
Bridger	Ferron	Halgoite Tongue	Ourray
Green River	Frontier	Phosphoria	Elbert
	Dakota	Park City	McCracken
	Burro Canyon	Rico (Goodridge)	Aneth
	Cedar Mountain	Supai	Simonson Dolomite
	Buckhorn	Wolfcamp	Sevy Dolomite
	JURASSIC	CARBONIFEROUS	North Point
Wasatch	Morrison	Pennsylvanian	SILURIAN
Stone Cabin	Salt Wash	Oquirrh	Laketown Dolomite
Colton	San Rafael	Weber	ORDOVICIAN
Flagstaff	Summerville	Morgan	Eureka Quartzite
North Horn	Bluff Sandstone	Hermosa (upper) 4585'	Pogonip Limestone
Almy	Curtis		CAMBRIAN
Paleocene	Entrada	Paradox	Lynch
Current Creek	Moab Tongue	Ismay	Bowman
North Horn	Carmel	Desert Creek 5588'	Tapeats
CRETACEOUS	Glen Canyon Gr.	Akah	Ophir
Montana	Navajo	Barker Creek	Tintic
Mesaverde	Kayenta		PRE-CAMBRIAN
Price River	Wingate	Cane Creek	
Blackhawk	TRIASSIC		

FILE NOT

Inter  
L. R.  
C. Card

Checked by Chief .....  
Signed by Chief .....  
Approval Letter .....  
Disapproval Letter .....

CO. DATA:  
Date completed 11/25/75

OW.... WW.... TA....  
AL.... OS.... PA....

Location Inspected .....  
Location Inspected .....  
Bo Bond released  
State or Fee Land .....

LOGS FILED

Driller's Log.....  
P.L. (No.) ✓(4)...  
E..... Dual I Lat..... GR-N..... Micro.....  
B..... Lat..... Mi-L..... Sonic.....  
CCL..... CCLog..... Others.....

Date of 1st Production: 11/25/75

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐OTHER ☐SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Phillips Petroleum Company

## 3. ADDRESS OF OPERATOR

P. O. Box 2920, Casper, Wyoming 82601

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface 2385' FSL, 2040' FWL

At proposed prod. zone

Same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

5-1/2 miles south of Montezuma Creek, Utah

## 15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

Approx. 1 mile from  
Ratherford Unit lease  
line.

## 16. NO. OF ACRES IN LEASE

2560

## 18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

1600' from  
#18-13

## 19. PROPOSED DEPTH

5785

## 17. NO. OF ACRES ASSIGNED TO THIS WELL

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4793' ungraded ground

## 22. APPROX. DATE WORK WILL START\*

On approval

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	27.1	90'	100 cu. ft. (to surface)
11"	8-5/8"	24	1550'	875 cu. ft. (to surface)
7-7/8"	5-1/2"	14	5785'	250 cu. ft. (1000' fill-up)

Approval is requested to drill this off pattern Desert Creek development oil well to increase the ultimate recovery from the Ratherford Unit. ✓

BOF equipment will be operated daily and tested weekly. ✓

APPROVED BY DIVISION OF  
OIL & GAS CONSERVATION

DATE 6-4-75

BY C. B. Feight

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED F. M. Morgan TITLE Area Superintendent DATE June 2, 1975

(This space for Federal or State office use)

PERMIT NO. 13-037-3024 APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

- 3 - USGS, Farmington, NM
- 1 - Utah OGCC, SLG, Utah ✓
- 1 - Pella Prod
- 1 - Denver Prod
- 1 - R. N. Hughes
- 1 - File

\*See Instructions On Reverse Side



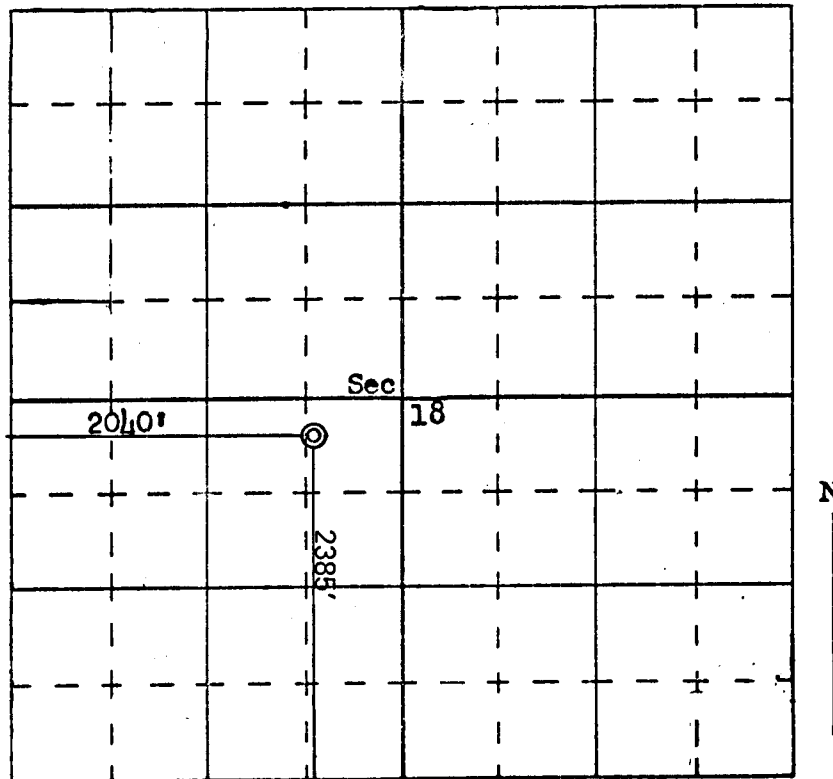
COMPANY Phillips Petroleum Company

LEASE Ratherford Unit WELL NO. 18-23

SEC. 18 T. 41S R. 24E  
SAN JUAN COUNTY, UTAH

LOCATION 2385' FSL 2040' FWL

ELEVATION 4793 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPER-  
VISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

SEAL:

*Fred B. Kerr Jr.*  
Fred B. Kerr Jr.

Registered Land Surveyor.

#3950

SURVEYED May 20, 1975

Laughlin-Simmons & Co.

FARMINGTON, N. M.

LEASE

Ratherford

WELL NO.

18-23

DATE REPORT DETAILED

1975  
July  
29  
RATHERFORD UNIT NO. 18-23 /INITIAL REPORT/. MIRT. FIN BLDG ROADS AND LOC. AFE P-9845 ISSUED TO DRILL 5785 FT DESERT CREEK OIL WELL. LOCATION 2385 FT FSL AND 2040 FT FWL, SEC. 18-T41S-R24E, SAN JUAN CO., UTAH. LOCATION STAKED 5/20/75 BY FRED B. KERR, JR. UNGRADED GR ELEV. 4793 FT. SUB AREA CODE 626. API NO. 43-037-30244. ARAPAHOE DRLG COMPANY, CON-TRACTOR.. (NE SW)

30  
31  
RATHERFORD UNIT NO. 18-23 TD 115. NU. PREP TO DRL AHEAD. SPUDDED AT 5:30 PM, 7/29/75. DRLD 17" SURFACE HOLE TO 115 FT. RAN 13-3/8" CSG SET AT 112 FT, CMTD W/125 SX CLASS "B" W/3 PERCENT CACL. CMT CIRC..

RATHERFORD UNIT NO. 18-23 D 970. 2 DEG AT 906 FT. MUD 8.8, VIS 28..

August  
1  
RATHERFORD UNIT NO. 18-23 D 1481. REDUCED HOLE SIZE TO 7-7/8" AT 1125 FT TO STRAIGHTEN HOLE. 1-1/4 DEG AT 1403 FT. MUD 8.8, VIS 28..

2-4  
RATHERFORD UNIT NO. 18-23 D 2034. 8/2/75 - DRLD 7-7/8" HOLE TO 1550 FT, REAMED TO 11". RAN 8-5/8" J-55 CSG SET AT 1550 FT, CMTD W/400 SX LITE CMT, 2 PERCENT CACL, 1/4 LB FLOCELE, FOLLOWED W/150 SX CLASS "B", 2 PERCENT CACL, 1/4 LB FLOCELE. DID NOT CIRC. RAN SLM OUTSIDE CSG. TOP CMT AT 395 FT. 8/3/75 - ORANGE PEELED CONDUCTOR TO 8-5/8". INSTLD CONNECTIONS ON CONDUCTOR. HOWCO CMTD 1ST STAGE - 150 SX CLASS "B" CMT W/12-1/2 LB GILSONITE AND 1/2 LB FLOCELE/SX, 3 PERCENT CACL, FOLLOWED BY 100 SX CLASS "B" W/3 PERCENT CACL. M.P. 150 LB. FINAL PRESS 25 LB. SD 1 HR. PMPD 50 SX CLASS "B" W/3 PERCENT CACL. IP 100 LB. FINAL PRESS 75 LB. SI AFTER 30 LB BAD PRESS. 8/4/75 - RESUMED DRLG AND DRLD FROM 1550-2034 FT. 1-1/4 DEG AT 1910 FT..

5  
6  
RATHERFORD UNIT NO. 18-23 D 2376. 1 DEG AT 2336 FT. MUD 9.6, VIS 38..

RATHERFORD UNIT NO. 18-23 TD 2632. TRIPPING FOR BIT. DRLD FROM 2376 FT TO 2632 FT. MUD 10, VIS 38, WL 6.4..

7  
RATHERFORD UNIT NO. 18-23 D 2986. 1 DEG AT 2655 FT. MUD 10, VIS 35, WL 8..

8  
RATHERFORD UNIT NO. 18-23 TD 3328. TRIPPING. DRLD FROM 2986-3328 FT. MUD 10, VIS 35, WL 8..

9-11  
RATHERFORD UNIT NO. 18-23 D 4020. DRLD FROM 3328-4020 FT. MUD 10, VIS 35, WL 10.1..

12  
RATHERFORD UNIT NO. 18-23 D 4250. DRLD 7-7/8" HOLE FROM 4020-4250 FT. MUD 9.7, VIS 35, WL 10.1..

13  
RATHERFORD UNIT NO. 18-23 D 4490. MUD 9.7, VIS 35, WL 15..

14  
RATHERFORD UNIT NO. 18-23 D 4650. MUD 9.4, VIS 35, WL 14..

15  
RATHERFORD UNIT NO. 18-23 D 4900. MUD 9.5, VIS 36, WL 10.2..

16-18  
RATHERFORD UNIT NO. 18-23 D 5415. DRLD FROM 4900-5415 FT. MUD 9.5, VIS 35, WL 9.4..

19  
RATHERFORD UNIT NO. 18-23 D 5640. MUD 9.6, VIS 44, WL 8..

20  
RATHERFORD UNIT NO. 18-23 D 5750. 1/4 DEG AT 5668 FT. MUD 9.7, VIS 55, WL 5.4..

21  
RATHERFORD UNIT NO. 18-23 TD 5785. LOGGING. DRLD TO 5785 FT. COOH. RU SCH. TO RUN DILL AND GR-FDC-CNL LOGS. MUD 9.7, VIS 66, WL 4..

POOR COPY

Ratherford Unit

18-23

DATE: 8/21/75

1975

Aug.

22

RATHERFORD UNIT NO. 18-23 PTD 5740. MOR. SCH. FIN LOGGING. RAN DIL FROM 5782-1552 FT, GR-FDC-CNL FROM 5785-4785 FT, CALIPER ONLY FROM 4785-3000 FT. RAN 5-1/2" CSG SET AT 5784, HOWCO CMTD W/1000 CU. FT. 40 PERCENT DIACEL D, FOLLOWED W/100 SX CLASS "B", 18 PERCENT SALT, 3/4 PERCENT CFR-2 AND 1/4 LB FLOCELE/SX. FLOAT COLLAR AT 5740 FT. PMPD PLUG DN W/500 GAL 7-1/2 PERCENT ACETIC ACID. RMPD PLUG AT 10:40 PM, 8/21/75. RELEASED ARAPAHOE DRLG COMPANY, RIG NO. 6, AT 12:00 MIDNIGHT, 8/21/75..

23-25

RATHERFORD UNIT NO. 18-23 PTD 5740. PREP TO CLEAN UP LOCATION. 8/23/75 AND 8/24/75 - MOR. 8/25/75 - FIN MOR. TEMPERATURE SURVERY, TOC AT 2600 FT..

26

RATHERFORD UNIT NO. 18-23 PTD 5740. PREP TO INSTALL UNIT TIE-DOWNS. FIN CLEANING UP LOC..

27

RATHERFORD UNIT NO. 18-23 PTD 5740. PREP TO MOVE IN COMPLETION UNIT ON 8/29/75. INSTLD UNIT TIE-DOWNS..

28

RATHERFORD UNIT NO. 18-23 PTD 5740. PREP TO MI COMPLETION UNIT 8/29/75. INSTALLING PMPG UNIT..

29

RATHERFORD UNIT NO. 18-23 PTD 5740. PREP TO MI COMPLETION UNIT TODAY. INSTLG PMPG UNIT..

30-31  
SEPT. 1-2

RATHERFORD UNIT NO. 18-23 PTD 5740. 8/30/75 - MI AND RU R AND R WS UNIT 8/29/75. 8/31/75 - SD OVER SUNDAY. 9/1/75 - SD FOR HOLIDAY. 9/2/75 PREP TO PERFORATE..

3

RATHERFORD UNIT NO. 18-23 PTD 5740. PREP TO CO. RAN SPEAR, RESET SLIPS AND WELLHEAD. RU SCH., RAN GR-COLLAR LOG, UNABLE TO GET BELOW 5708 FT. RU BIT, CSG SCRAPER. WIH TO 5594 FT. START RU CIRC EQUIP. SDON..

4

RATHERFORD UNIT NO. 18-23 PTD 5740. PREP TO ACIDIZE. RAN BIT AND SCRAPER TO 5710 FT. BRIDGE IN CSG. DROPPED THRU BRIDGE. RAN BIT TO 5741 FT. COOH W/TBG. SCH. PERFD 5706-16 FT GR-DENSITY MEAS. W/5" CSG GUN HYPER JET 11, 2 HPF. WIH W/TBG, PKR AND 4 JTS TAILPIPE. RAN TAILPIPE TO 5706 FT. PMPD 2-1/2 BW DN CSG. CSG PRESS TO 600 LB. SDON..

5

RATHERFORD UNIT NO. 18-23 PTD 5740. FISHING FOR WL AND PRESS BOMB. SET PKR AND SWBD WELL DN TO 3000 FT, NO FLUID ENTRY. RELEASED PKR AND LOWERED TAILPIPE TO 5736 FT. SPOTTED 300 GAL 15 PERCENT HCL ACROSS PERFS 5706-16 FT. BD PERFS W/2000 LB. DISPLD ACID W/7 BW. RELEASED PKR, RAISED TAILPIPE TO 5700 FT. ACIDIZED W/1000 GAL 15 PERCENT HCL, 1/2 TO 2 BPM, PRESS 3000-2500 LB. DISPLD ACID W/35 BW. ISIP 1000 LB, VAC IN 3 MIN. ACID CONTAINED 3 GAL W-35 AND 3 GAL F-75. PMPD 24 BALL SEALERS W/ACID. RU SWAB, SWBD 4-1/2 HRS, REC 54 BL AND AW. FL 2000-2500 FT. 45 BL AND AW TO REC. RU TEFTELLER WL COMPANY TO RUN PRESS BOMB. WIH TO 4436 FT. WL BROKE IN MEASURING HEAD. DROPPED APPROX 4500 FT OF WL AND BOMB..

6-8

RATHERFORD UNIT NO. 18-23 PTD 5740. PMPG ON TEST. FISHED WL AND PRESS-URE BOMB, OK. WIH W/SWAB. TAGGED FLUID AT 1500 FT. SWBD 2 HRS, REC 26 BL AND AW, NO OIL. SWBG FL 2500. COOH W/TBG AND PKR. WIH W/2-1/2" TBG AND ANCHOR. TBG INTAKE 5701 FT, ANCHOR 5668 FT, SN 5667 FT. SDON. 107 BL AND AW. 9/7/75 - RAN 2" PMP AND PODS. CONNECTED UP WELLHEAD. STARTED PMPG AT 5:00 PM, 9/6/75. RELEASED R AND R WS UNIT AT 4:00 PM, 9/6/75. 9/8/75 - PMPD 15-1/2 HRS, REC 107 BL AND AW, 186 BBL FORMATION WTR, NO OIL, 15.5-67" SPM W/2" PUMP..

9

RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG. PMPD 21 HRS, REC TR. OIL, 396 BW. FL 1550 FT F/SURFACE. DN 3 HR, ENGINE DIED..

10

RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG. PMPD 24 HRS, 2 BO, 382 BW. FL 1550 FT..

1758

*Rutherford Unit*

*18-23*

UNIT NO. 18-23

*1975  
Sept*

*11*

RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG. PMPD 24 HRS, REC 11 B0, 540 BW. FL 2697 FT. INCREASED PMPG SPEED FROM 15.5 TO 19 SPM AT 2 PM..

*12*

RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG PMPD 24 HRS, REC 14 B0, 419 BW. FL 2108 FT F/SURF. 19-67" SPM..

*B-15*

RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG. 9/13/75 - PMPD 24 HRS, REC 0 B0, 420 BW, 19-67" SPM. FL 2100 FT. 9/14/75 - PLD RODS AND CHGD PMP. RAN 2-1/2 X 2" PUMP. PMPG ON TEST - NO GAUGE. 9/15/75 - PMPD 24 HRS, REC 3 B0, 502 BW, 19-67" SPM..

*16*

RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG. PMPD 24 HRS, REC 4 B0, 490 BW. CP 35 LB. FL 2263 FT..

*17*

RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG. PMPD 24 HRS, REC 2 B0, 483 BW. CP 40 LB, FL 2294 FT. 19-67" SPM..

*18*

RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG. PMPD 24 HRS, REC 2 B0, 494 BW. CP 40 LB. FL 2604 FT. 19-67" SPM..

*19*

RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG. PMPD 24 HRS, REC 5 B0, 623 BW. FL 2635 FT. 21-67-2" SPM..

*20-22*

RATHERFORD UNIT NO. 18-23 PTD 5740. CONT TESTING, 9/20/75 - PMPD 24 HR REC 5 B0, 776 BW, FL 3162 FT. 9/21/75 - PMPD 24 HR REC 5 B0, 791 BW. 9/22/75 - PMPD 24 HR, REC 2 B0, 749 BW..

*23*

RATHERFORD UNIT NO. 18-23 PTD 5740. PMPD 24 HRS, REC 4 B0, 757 BW, FL 3007 FT, 21 - 67" SPM W/2" PMP. TEMP. DROPPED FROM REPORT PENDING PARTNER APPROVAL TO RECOMPLETE IN ZONE NO. 1..

## \*FILE NOTATIONS\*

Date: June 4-Operator: Phillips Petroleum Co.Well No: Bathford 18-23Location: Sec. 18 T. 41S R. 24E County: San JuanFile Prepared ☒Entered on N.I.D. ☒Card Indexed ☒Completion Sheet ☐Checked By:Administrative Assistant: DW

Remarks:

Petroleum Engineer/Mined Land Coordinator: [Signature]

Remarks:

Director: [Signature]

Remarks:

Include Within Approval Letter:Bond Required ☐Survey Plat Required ☐Order No. ☐Blowout Prevention Equipment ☐Rule C-3(c) Topographical exception/company owns or controls acreage  
within a 660' radius of proposed site ☐O.K. Rule C-3 ☐O.K. In Bathford Unit ☒Other: ☐

Letter Written

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-13744.

ALLOTTEE Tribal  
TRIBE Navajo  
LEASE NO. 14-20-603-353

## LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field Greater Aneth

The following is a correct report of operations and production (including drilling and producing wells) for the month of July, 1975, Ratherford Unit #18-23

Agent's address P. O. Box 2920 Company Phillips Petroleum Company  
Casper, Wyoming

Phone 237-3791 Signed F. M. Morgan Agent's title Area Superintendent

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE SW Sec. 18	41S	24N	18-23		INITIAL REPORT: Spudded at 5:30 p.m., 7/29/75. Drld 17" surface hole to 115'. Ran 13 3/8" csg set at 112', cmtd w/125 sx Class "B" w/3% salt. Cmt Circ. PD 7/30/75. Drld 7 7/8" hole from under surface 7/31/75 and drld to 1481'.					

NOTE.—There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M. cu. ft. of gas sold;

\_\_\_\_\_ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

## K

✓

16-- 26231-7 U.S. GOVERNMENT PRINTING OFFICE

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☐DEEPEN ☐PLUG BACK ☒

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐OTHER ☐SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Phillips Petroleum Company

## 3. ADDRESS OF OPERATOR

P. O. Box 2920 Casper, Wyoming 82601

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

2385' FSL, 2040' FWL (NE SW)

At proposed prod. zone

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

5-1/2 miles South of Montezuma Creek, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. line, if any) Approx. 1 mile from RU Lease line

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1600 ft from #18-13

## 16. NO. OF ACRES IN LEASE

2560

## 19. PROPOSED DEPTH

## 17. NO. OF ACRES ASSIGNED TO THIS WELL

## 20. ROTARY OR CABLE TOOLS

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4800 RSL

## 22. APPROX. DATE WORK WILL START\*

October 10, 1975

## 23.

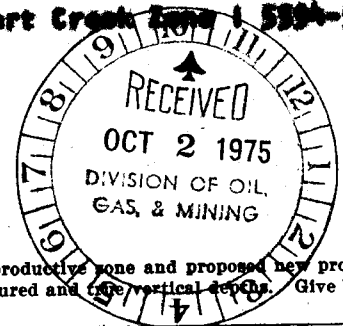
## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17"	13-3/8"	27.1#	112	125 cu Class B
11"	8-5/8"	24#	1550	400 cu Lite emt, 400 cu Class B
7-7/8"	5-1/2"	15.5#	5704	1000 cu.ft. Class B, 100 cu Class "B".

Well was drilled to 5785' TD, perforated 5706-16 in Desert Creek Zone II, acidized w/300 gals BD acid & 1000 gals 15% HCL, placed on pump 9/6/75 & tested 16 days, final test 4 BOPD & 757 BHPD, considered non-commercial. Details of above work is on attached Daily Report Detailed.

It is proposed to squeeze cement Zone II 5706-16 & perforate Desert Creek Zone I 5594-5607 & 5681-5685, acid frac & return to production from Zone I only.

Present production shut down as uneconomical.



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED

F. M. Morgan

TITLE

Area Superintendent

DATE

9/30/75

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

3-UGGS-Farmington NM

1-Utah OGCC, SLC, Utah

1-Boyle Prod

1-Denver Prod

1-R.N. Hughes

1-File

\*See Instructions On Reverse Side



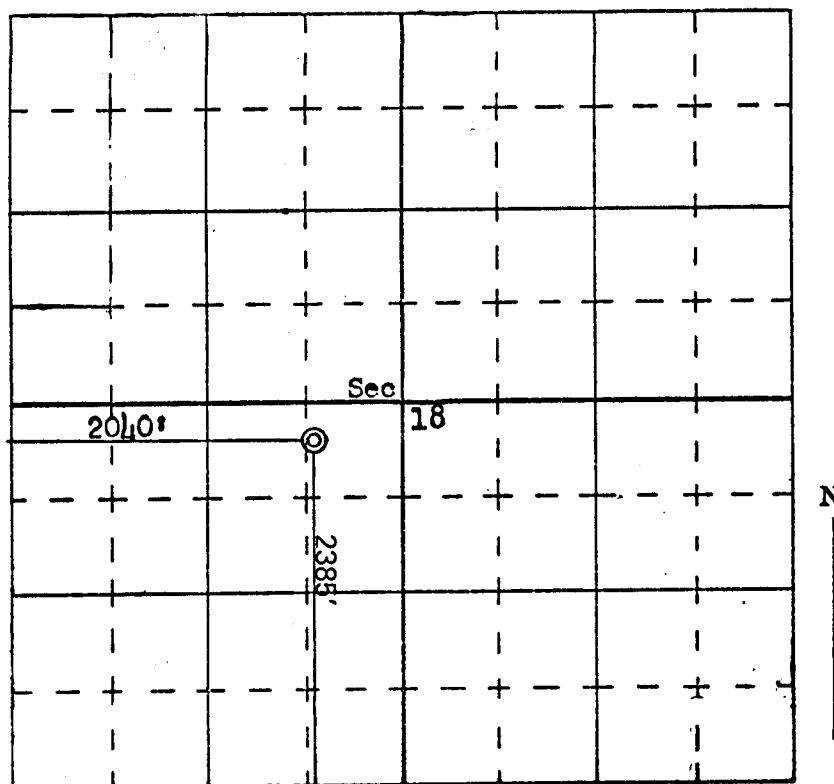
COMPANY Phillips Petroleum Company

LEASE Ratherford Unit WELL NO. 18-23

SEC. 18, T. 41S, R. 24E  
SAN JUAN COUNTY, UTAH

LOCATION 2385' FSL 2040' FWL

ELEVATION 4793 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPER-  
VISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

SEAL:

*Fred B. Kerr Jr.*  
Fred B. Kerr Jr.

Registered Land Surveyor.

#3950

SURVEYED May 20, 1975

Laughlin-Simmons & Co.

FARMINGTON, N. M.



POOR COPY

1975  
Sept.  
3

RATHERFORD UNIT NO. 18-23 PTD 5740. PEEP TO CO. VAN SPEAR, RESET SLIPS AND WELLHEAD. PU SCH., RAN GR-COLLAR LOG, UNABLE TO GET BELOW 5708 FT. PU BIT, CSG SCRAPER. WIH TO 5594 FT. START PU CIRC EQUIP. SDON..

4

RATHERFORD UNIT NO. 18-23 PTD 5740. PEEP TO ACIDIZE. RAN BIT AND SCRAPER TO 5710 FT. BRIDGE IN CSG. DROPPED THIRD BRIDGE. RAN BIT TO 5741 FT. COOH W/TRG. SCH. PEEED 5706-16 FT GR-DENSITY MEAS. W/5" CSG GUN HYPER JET 11, 2 RPT. WIH W/TRG, PKR AND 4 JTS TAILPIPE. RAN TAILPIPE TO 5706 FT. PMPD 2-1/2 BW DN CSG. CSG PRESS TO 600 LB. SDON..

5

RATHERFORD UNIT NO. 18-23 PTD 5740. FISHING FOR WL AND PRESS BOMB. SET PKR AND SWBD WELL DN TO 3000 FT, NO FLUID ENTRY. RELEASED PKR AND LOWERED TAILPIPE TO 5736 FT. SPOTTED 300 GAL 15 PERCENT HCL ACROSS PERFS 5706-16 FT. RD PERFS W/2000 LB. DISPLD ACID W/7 BW. RELEASED PKR, RAISED TAILPIPE TO 5700 FT. ACIDIZED W/1000 GAL 15 PERCENT HCL, 1/2 TO 2 RPM, PRESS 3000-2500 LB. DISPLD ACID W/35 BW. ISIP 1000 LB, VAC IN 3 MIN. ACID CONTAINED 3 GAL W-35 AND 3 GAL F-75. PMPD 24 BALL SEALERS W/ACID. RU SWAB, SWBD 4-1/2 HRS, REC 54 BL AND AW. FL 2000-2500 FT. 45 BL AND AW TO REC. RU TEFTELLER WL COMPANY TO RUN PRESS BOMB. WIH TO 4436 FT. WL BROKE IN MEASURING HEAD. DROPPED APPROX 4500 FT OF WL AND BOMB..

-8

RATHERFORD UNIT NO. 18-23 PTD 5740. PMRG ON TEST. FISHED WL AND PRESS-URE BOMB, OK. WIH W/SWAB. TAGGED FLUID AT 1500 FT. SWBD 2 HRS, REC 26 BL AND AW, NO OIL. SWRG FL 2500. COOH W/TRG AND PKR. WIH W/2-1/2" TRG AND ANCHOR. TRG INTAKE 5701 FT, ANCHOR 5668 FT, SN 5667 FT. SDON. 107 BL AND AW. 9/7/75 - RAN 2" PMP AND RODS. CONNECTED UP WELLHEAD. STARTED PMRG AT 5:00 PM, 9/6/75. RELEASED P AND P WS UNIT AT 4:00 PM, 9/6/75. 9/8/75 - PMPD 15-1/2 HRS, REC 107 BL AND AW, 186 BPL FORMATION WTR, NO OIL, 15.5-67" SPM W/2" PUMP..

9

RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG. PMPD 21 HRS, REC TR. OIL, 396 BW. FL 1550 FT F/SURFACE. DN 3 HR, ENGINE DIED..

10

RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG. PMPD 24 HRS, 2 B0, 382 BW. FL 1550 FT..

Rutherford Unit

18-23

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Sept

11

RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG. PMPD 24 HRS, REC 11 B0, 540 BW. FL 2697 FT. INCREASED PMPG SPEED FROM 15.5 TO 19 SPM AT 2 PM..

12

RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG PMPD 24 HRS, REC 14 B0, 419 BW. FL 2108 FT F/SURF. 19-67" SPM..

13-15

RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG. 9/13/75 - PMPD 24 HRS, REC 0 B0, 420 BW, 19-67" SPM. FL 2100 FT. 9/14/75 - PLD RODS AND CHGD PMP. RAN 2-1/2 X 2" PUMP. PMPG ON TEST - NO GAUGE. 9/15/75 - PMPD 24 HRS, REC 3 B0, 502 BW, 19-67" SPM..

16

RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG. PMPD 24 HRS, REC 4 B0, 490 BW. CP 35 LB. FL 2263 FT..

17

RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG. PMPD 24 HRS, REC 2 B0, 483 BW. CP 40 LB, FL 2294 FT. 19-67" SPM..

18

RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG. PMPD 24 HRS, REC 2 B0, 494 BW. CP 40 LB. FL 2604 FT. 19-67" SPM..

19

RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG. PMPD 24 HRS, REC 5 B0, 623 BW. FL 2635 FT. 21-67-2" SPM..

10-22

RATHERFORD UNIT NO. 18-23 PTD 5740. CONT TESTING, 9/20/75 - PMPD 24 HR REC 5 B0, 776 BW, FL 3162 FT. 9/21/75 - PMPD 24 HR REC 5 B0, 791 BW. 9/22/75 - PMPD 24 HR, REC 2 B0, 749 BW..

23

RATHERFORD UNIT NO. 18-23 PTD 5740. PMPD 24 HRS, REC 4 B0, 757 BW, FL 3007 FT, 21 - 67" SPM W/2" PMP. TEMP. DROPPED FROM REPORT PENDING PARTNER APPROVAL TO RECOMPLETE IN ZONE NO. 1..

TITLE Tribal  
TRIBE Navajo  
LEASE NO. 14-20-603-353

RECEIVED  
NOV 7 1975  
LESSE  
GAS, OIL, MINING  
Utah  
State

Phone 237-3791 Agent's title Area Superintendent

16-20231-7 U.S. GOVERNMENT PRINTING OFFICE



Rutherford Unit

4-23

1975  
Sept  
11  
12  
RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG. PMPD 24 HRS, REC 11 B0, 540 BW. FL 2697 FT. INCREASED PMPG SPEED FROM 15.5 TO 19 SPM AT 2 PM..

RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG PMPD 24 HRS, REC 14 B0, 419 BW. FL 2108 FT F/SURF. 19-67" SPM..

13-15  
RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG. 9/13/75 - PMPD 24 HRS, REC 0 B0, 420 BW, 19-67" SPM. FL 2100 FT. 9/14/75 - PLD RODS AND CHGD PMP. RAN 2-1/2 X 2" PUMP. PMPG ON TEST - NO GAUGE. 9/15/75 - PMPD 24 HRS, REC 3 B0, 502 BW, 19-67" SPM..

16  
RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG. PMPD 24 HRS, REC 4 B0, 490 BW. CP 35 LB. FL 2263 FT..

17  
RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG. PMPD 24 HRS, REC 2 B0, 483 BW. CP 40 LB. FL 2294 FT. 19-67" SPM..

18  
RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG. PMPD 24 HRS, REC 2 B0, 494 BW. CP 40 LB. FL 2604 FT. 19-67" SPM..

19  
RATHERFORD UNIT NO. 18-23 PTD 5740. TSTG. PMPD 24 HRS, REC 5 B0, 623 BW. FL 2635 FT. 21-67-2" SPM..

20-22  
RATHERFORD UNIT NO. 18-23 PTD 5740. CONT TESTING, 9/20/75 - PMPD 24 HR REC 5 B0, 776 BW, FL 3162 FT. 9/21/75 - PMPD 24 HR REC 5 B0, 791 BW. 9/22/75 - PMPD 24 HR, REC 2 B0, 749 BW..

23  
RATHERFORD UNIT NO. 18-23 PTD 5740. PMPD 24 HRS, REC 4 B0, 757 BW, FL 3007 FT, 21 - 67" SPM W/2" PMP. TEMP. DROPPED FROM REPORT PENDING PARTNER APPROVAL TO RECOMPLETE IN ZONE NO. 1..

Nov  
8-10  
RATHERFORD UNIT NO. 18-23 PTD 5740. TEMPORARILY DROPPED FROM REPORT 9/23/75 PENDING PARTNER APPROVAL TO RECOMPLETE IN ZONE NO. 1. 11/9/75 - MI R AND R WS UNIT 11/8/75 TO SQZ ZONE 11 AND RECOMPLETE IN ZONE 1. FISHED PARTED RODS AND PLD PMP. START 00H W/TBG. SDON. 11/10/75 - SD OVER SUNDAY..

11  
RATHERFORD UNIT NO. 18-23 PTD 5696. PREP TO PERF ZONE 1. FIN COOH W/TBG. RAN BAKER CMT RETAINER ON TBG SET AT 5696 FT. PRESS TSTD TBG TO 4000 LB. PMPD INTO PERFS 5706-16 FT, 2-1/2 BPM AT 3000 LB. MIXED 100 SX CLASS "B", 10 PERCENT SALT, 1-1/4 PERCENT CFR-2. DISPLD 51 SX BELOW RETAINER AND SQZD PERFS 5706-16 FT. MP 4000 LB. HOLDING PRESS 3900 LB. REVERSED OUT 49 SX CMT. COOH W/TBG..

12  
RATHERFORD UNIT NO. 18-23 PTD 5696. PREP TO SWAB TEST. RU SCHL., PERFD 5681-85 AND 5594-5607 FT W/4" CSG GUN, HYPER JET 11. WIH W/RBP AND PKR. SET BP AT 5690 FT, RAISED PKR AND SET AT 5647 FT. RU DOWELL. ACIDIZED W/1000 GAL 28 PERCENT HCL FOLLOWED BY 2000 GAL FLUSH AS FOLLOWS - SPOT ACID ACROSS PERFS 5594-5607 FT. PRESS UP TO 3500 LB. BLED BACK TO 2500 LB, 5 MIN. CONTINUED TO PRESS UP TO 3500 LB, BLED BACK FOR 1 HR. PRESS UP TO 3800 LB, PMP IN 1/4 BPM AT 3800 LB. PRESS BLED BACK SLOWLY TO 1400 LB W/RATE CONSTANT AT 1/4 BPM. INCR RATE TO 1 BPM, PRESS INCR TO 2800 LB. PRESS DECR SLOWLY TO 2000 LB AT 1 BPM. INCR RATE TO 1-1/2 BPM, 2600 LB. PRESS DECR TO 900 LB AND HELD AT RATE OF 1-1/2 BPM. ISIP 500 LB, ON VAC IN 2 MIN. 104 BL AND AW TO REC..

13  
RATHERFORD UNIT NO. 18-23 PTD 5696. PREP TO SQZ PERFS 5681-85 FT. SWBD 8 HRS, REC 104 RL AND AW, 20 BNW, TR OIL. FL 1800 FT-2100 FT..

14  
RATHERFORD UNIT NO. 18-23 PTD 5696. PREP TO DRILL OUT RETAINER AND CMT. COOH W/PKR AND BP. WIH W/BAKER MODEL K CMT PET SET AT 5649 FT. PMP IN TEST 3-1/2 BPM AT 2600 LB. HOWCO MIXED AND PMPD 150 SX CLASS B W/10 PERCENT SALT, 1-1/4 PERCENT CFR-2. PRESS INCR TO 4000 LB W/20 SX IN FORMATION. BLED TO 3000 LB. STAGED ANOTHER 20 SX, HOLDING PRESS 3500 LB. STUNG OUT OF RET AND REVERSED OUT 110 SX CMT. COOH W/TBG..

PAULI SERVICE REPORT

1475  
7102  
15-17  
RATHERFORD UNIT NO. 18-23 PTD 5696. DRLG CMT. 11/15/75 - COOH W/TBG. RU REVERSE CIRC EQUIP. WIH W/BIT, CSG SCRAPER, 6 DC/S AND TBG. TAGGED RETAINER AT 5649 FT, DRLD ON RETAINER 1 HR. SDON. 11/16/75 - DRLD RETAINER AND CMT FROM 5649 FT TO 5663 FT. SDON. 11/17/75 - SD OVER SUN-DAY..

18  
RATHERFORD UNIT NO. 18-23 PTD 5696. PREP TO PERFORATE. DRLD CMT FROM 5663-5696 FT. SPOTTED 200 GAL ACETIC ACID. COOH W/TBG AND BIT..

19  
RATHERFORD UNIT NO. 18-23 PTD 5696. PREP TO SQZ PERFS 5681-85 FT. RU SCH., PERFD 5681-85 FT W/4" CSG GUN HYPER JET 11 CHRGES. WIH W/PKR AND RBP. SET BP AT 5690 FT, PKR AT 5646 FT W/TAI PIPE AT 5687 FT. PRESS UP ON TBG TO 3000 LB, BLED BACK TO 2300 LB IN 8 MIN. UNABLE TO PMP IN ACETIC ACID. CIRC 1000 GAL 28 PERCENT HCL ON SPOT. PRESS UP TO 3000 LB, PRESS BLED BACK TO 2500 LB IN 3 MIN. DISPLD 2 BBL ACID IN 50 MIN. STARTED PMPG IN 1/4 BPM AT 2800 LB. PRESS STARTED BREAKING BACK WITH ALL ACID IN PERFS, 3 BPM AT 2000 LB. OVER-DISPLD ACID W/30 BBL WTR. FINAL RATE 3-1/2 BPM AT 2000 LB. ISIP 1200 LB, VAC IN 6 MIN. MP 3000 LB. LOAD TO REC 87 BBL. SWRD 3-1/2 HR, REC 65 BBL LOAD, NO OIL. SWRG FL 2500 FT F/ SURFACE. FINAL LOAD TO REC 22 BBL. SDON..

20  
RATHERFORD UNIT NO. 18-23 PTD 5696. PREP TO ACIDIZE PERFS 5594-5607 FT. COOH W/PKR AND RP. WIH W/BAKER MODEL K CMT RETAINER, SET AT 5640 FT. RU HOWCO. PUMP IN TEST 4-1/2 BPM AT 2200 LB. MIXED AND PMPD 50 SX CLASS "B" CMT W/1-1/4 PERCENT CFR-2. SQZD PERFS 5681-85 FT TO 3800 LB HOLDING PRESS. MAX PRESS 4000 LB. REVERSED OUT 5 SX CMT. COOH. WIH W/TBG AND PKR..

21  
RATHERFORD UNIT NO. 18-23 PTD 5696. PREP TO ACID FRAC. FIN GIH W/TBG AND PKR. SET PKR AT 5581 FT, TAILPIPE AT 5610 FT. DOWELL ACIDIZED PERFS 5594-5607 W/1000 GAL 15 PERCENT HCL AS FOLLOWS - SPOT ACID, STARTED PMPG IN 1/4 BPM AT 2700 LB. BROKE TO 2300 LB, INCR RATE TO 2-1/2 BPM AT 3000 LB. FLUSHED W/17 BW. FINAL RATE 2-1/2 BPM AT 2900 LB. ISIP 2500 LB, 5 MIN SIP 1300 LB. OPENED WELL TO PIT, FLWD 10 BW AND DIED. SWRD 24 BLW TO TANK. FL 3700 LB. SWRD ADDITIONAL 29 BBL, 10-90 PERCENT OIL. SWBG FROM 5300 FT. FLUID SCATTERED IN TBG. SION. 11 BL AND AW TO REC..

22-34  
RATHERFORD UNIT NO. 18-23 PTD 5696. PREP TO RUN TBG AND RODS AND PUT WELL TO PMPG. 11/22/75 - RESET PKR AT 5551 FT, TAILPIPE AT 5580 FT. RU DOWELL, ACID FRACED INTERVAL 5594-5607 FT W/FOLLOWING - 9500 GAL 28 PERCENT HCL IN 5 STAGES /1000 GAL, 1500 GAL, 1500 GAL, 4000 GAL EACH STAGE/ 10,000 GAL KIX EMULSION IN 5 2000 GAL STAGES /100 MESH SD IN LAST 4 STAGES AT 1-1/2 TO 3 AND 4 LB/GAL/, FOLLOWED W/15,000 GAL SLICK WTR. TOTAL FLUID USED 160 LSE CRUDE, 666 BBL ACID AND WTR. AIR 7.3 BPM. MP 5100 LB. FINAL RATE PRESS 10 BPM AT 4350 LB. ISIP 2900 LB, 10 MIN SIP 2350 LB, 20 MIN 2000 LB. OPENED WELL, FLWD 177 BLW AND 137 BLO IN 11 HRS AND DIED. 11/23/75 - SWRD AND FLWD TO TEST TANK IN 9 HRS. REC 23 BLO AND 102 BNO, 53 BL AND AW. TURNED INTO FLOW LINE OVERNIGHT. REC 19 BO, 10 BLW AND DIED. 11/24/75 - SWRD AND FLWD 5-1/2 HRS, REC 97 BO, 42 BLW. SI AT 1:30 PM FOR PRESSURE BUILDUP TEST. RAN BHP BOMB TO 5601 FT. SION. TAGGED FILL AT 5625 FT. 384 BLW TO REC..

25  
RATHERFORD UNIT NO. 18-23 PTD 5696. PREP TO FIN RNG TBG AND RODS AND PUT WELL TO PMPG. COOH W/BOMB. 16 HR SI BHP 1259 LB. ATTEMPTED TO PULL TBG AND PKR, WELL KICKED. RU HOWCO. PMPD DN TBG TO KILL WELL. COOH W/ TBG AND PKR, START IH W/TBG AND TBG ANCHOP. SDON..

26  
RATHERFORD UNIT NO. 18-23 PTD 5696. PMPG ON TEST. PAN TBG AND RODS. SET TBG AT 5547 FT. RAN 2-1/2" X 1-3/4" X 20 FT PUMP. STARTED WELL TO PMPG AT 4:00 PM, 11/25/75. PMPD 15 HRS, NO TEST. USED 50 BLW TO KILL WELL AND RUN TBG. 434 BLW TO REC. RELEASED R AND R WS UNIT 11/25/75..



## MAYIN RECORD 1 (RATHERFORD)

1975  
11-77-  
dec 1  
2

RATHERFORD UNIT NO. 18-23 PTD 5696. CONT PMPG. ON TEST 11/27/75 - PMPD 24 HRS, REC 42 BO, 177 BLW. 11/28/75 - PMPD 24 HRS, REC 234 BO, 56 BLW. 11/29/75 - PMPD 24 HRS, REC 216 BO, 25 BLW. 11/30/75 - PMPD 24 HRS, REC 214 BO, NO WTR. 12/1/75 - PMPD 24 HRS, REC 274 BO, NO WTR. 16-67-1-3/4" SPM. 176 BLW TO REC..

RATHERFORD UNIT NO. 18-23 PTD 5696. CONT. PMPG. ON TEST. PMPD 24 HRS, REC 224 BO, 22 BLW. 16-67-1-3/4" SPM. 154 BLW TO REC..

POOR COPY

August  
1

RATHERFORD UNIT NO. 18-23 D 1481. REDUCED HOLE SIZE TO 7-7/8" AT 1125 FT TO STRAIGHTEN HOLE. 1-1/4 DEG AT 1403 FT. MUD 8.8, VIS 28..

2-4 RATHERFORD UNIT NO. 18-23 D 2034. 8/2/75 - DRILD 7-7/8" HOLE TO 1550 FT, PEAMED TO 11". RAN 8-5/8" J-55 CSG SET AT 1550 FT, CMTD W/400 SX LITE CMT, 2 PERCENT CACL, 1/4 LB FLOCELE, FOLLOWED W/150 SX CLASS "B", 2 PERCENT CACL, 1/4 LB FLOCELE. DID NOT CIRC. RAN SLM OUTSIDE CSG. TOP CMT AT 395 FT. 8/3/75 - ORANGE PEELED CONDUCTOR TO 8-5/8". INSTLD CONNECTIONS ON CONDUCTOR. HOWCO CMTD 1ST STAGE - 150 SX CLASS "B" CMT W/12-1/2 LB GILSONITE AND 1/2 LB FLOCELE/SX, 3 PERCENT CACL, FOLLOWED BY 100 SX CLASS "B" W/3 PERCENT CACL. M.P. 150 LB. FINAL PRESS 25 LB. SD 1 HR. PEPD 50 SX CLASS "B" W/3 PERCENT CACL. IP 100 LB. FINAL PRESS 75 LB. SI AFTER 30 LB RAD PRESS. 8/4/75 - RESUMED DRLG AND DRLD FROM 1550-2034 FT. 1-1/4 DEG AT 1910 FT..

5

RATHERFORD UNIT NO. 18-23 D 2376. 1 DEG AT 2336 FT. MUD 9.6, VIS 38..

6

RATHERFORD UNIT NO. 18-23 TD 2632. TRIPPING FOR BIT. DRLD FROM 2376 FT TO 2632 FT. MUD 10, VIS 38, WL 6.4..

7

RATHERFORD UNIT NO. 18-23 D 2986. 1 DEG AT 2655 FT. MUD 10, VIS 35, WL 8..

8

RATHERFORD UNIT NO. 18-23 TD 3328. TRIPPING. DRLD FROM 2986-3328 FT. MUD 10, VIS 35, WL 8..

9-11

RATHERFORD UNIT NO. 18-23 D 4020. DRLD FROM 3328-4020 FT. MUD 10, VIS 35, WL 10.1..

12

RATHERFORD UNIT NO. 18-23 D 4250. DRLD 7-7/8" HOLE FROM 4020-4250 FT. MUD 9.7, VIS 35, WL 10.1..

13

RATHERFORD UNIT NO. 18-23 D 4490. MUD 9.7, VIS 35, WL 15..

14

RATHERFORD UNIT NO. 18-23 D 4650. MUD 9.4, VIS 35, WL 14..

15

RATHERFORD UNIT NO. 18-23 D 4900. MUD 9.5, VIS 36, WL 10.2..

16-18

RATHERFORD UNIT NO. 18-23 D 5415. DRLD FROM 4900-5415 FT. MUD 9.5, VIS 35, WL 9.4..

19

RATHERFORD UNIT NO. 18-23 D 5640. MUD 9.6, VIS 44, WL 8..

20

RATHERFORD UNIT NO. 18-23 D 5750. 1/4 DEG AT 5668 FT. MUD 9.7, VIS 55, WL 5.4..

21

RATHERFORD UNIT NO. 18-23 TD 5785. LOGGING. DRLD TO 5785 FT. COOR. PH SCF. TO 5785 FT. 1/4 DEG AT 5785 FT. MUD 9.7, VIS 55, WL 5.4..

Rotherford Unit

18-23

- 1975  
Aug.  
22 RATHERFORD UNIT NO. 18-23 PTD 5740. MOP. SCH. FIN LOGGING. RAN DIL FROM 5782-1552 FT. GR-FDC-CML FROM 5785-4785 FT. CALIPER ONLY FROM 4785-3000 FT. RAN 5-1/2" CSG SET AT 5784, HOWCO CNTD W/1000 CU. FT. 40 PERCENT DIACEL D, FOLLOWED W/100 SX CLASS "B", 18 PERCENT SALT, 3/4 PERCENT CER-2 AND 1/4 LB FLOCELEZSX. FLOAT COLLAR AT 5740 FT. BMD PLUG DN W/500 GAL 7-1/2 PERCENT ACETIC ACID. BMD PLUG AT 10:40 PM, 8/21/75. RELEASED APARAOE BELG COMPANY, PIG NO. 6, AT 12:00 MIDNIGHT, 8/21/75..
- 23-25 RATHERFORD UNIT NO. 18-23 PTD 5740. PREP TO CLEAN UP LOCATION. 8/23/ AND 8/24/75 - MOP. 8/25/75 - FIN MOP. TEMPERATURE SURVEY, TOC AT 2600 FT..
- 26 RATHERFORD UNIT NO. 18-23 PTD 5740. PREP TO INSTALL UNIT TIE-DOWNS. FIN CLEANING UP LOC..
- 27 RATHERFORD UNIT NO. 18-23 PTD 5740. PREP TO MOVE IN COMPLETION UNIT ON 8/29/75. INSTLD UNIT TIE-DOWNS..
- 28 RATHERFORD UNIT NO. 18-23 PTD 5740. PREP TO RI COMPLETION UNIT 8/29/75. INSTALLING LSRG UNIT..
- 29 RATHERFORD UNIT NO. 18-23 PTD 5740. PREP TO RI COMPLETION UNIT TODAY. INSTLG PERG UNIT..
- 30-31  
Sept. 1-2 RATHERFORD UNIT NO. 18-23 PTD 5740. 8/30/75 - RI AND RI P AND P BS UNIT 8/29/75. 8/31/75 - SD OVER SUNDAY. 9/1/75 - SD FOR HOLIDAY. 9/2/75 PREP TO PERFORATE..

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPL. 2\*

(See other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL:				OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other <input type="checkbox"/>			
b. TYPE OF COMPLETION:				NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other <input type="checkbox"/>			
2. NAME OF OPERATOR <b>Phillips Petroleum Company</b>							
3. ADDRESS OF OPERATOR <b>P. O. Box 2920, Casper, Wyoming 82602</b>							
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface <b>2385' FSL &amp; 2040' FWL (NE SW)</b>  At top prod. interval reported below  At total depth							
14. PERMIT NO. <b>43-037-30244</b>				DATE ISSUED <b>6/4/75</b>			
15. DATE SPURRED <b>7/29/75</b>		16. DATE T.D. REACHED <b>8/20/75</b>		17. DATE COMPL. (Ready to prod.) <b>11/25/75</b>		18. ELEVATIONS (DF, REB, RT, GR, ETC.)* <b>4793' Ungraded GR, 4808' RAB</b>	
20. TOTAL DEPTH, MD & TVD <b>5785'</b>		21. PLUG, BACK T.D., MD & TVD <b>5640'</b>		22. IF MULTIPLE COMPL., HOW MANY* <b>-</b>		23. INTERVALS DRILLED BY <b>0 - 5785'</b>	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* <b>Desert Creek Zone I 5594-5607'</b>							25. WAS DIRECTIONAL SURVEY MADE <b>No</b>
26. TYPE ELECTRIC AND OTHER LOGS RUN <b>DIL, GR-FDC-CNL &amp; Caliper</b>							27. WAS WELL CORED <b>No</b>
28. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD		AMOUNT PULLED	
<b>13-3/8"</b>	<b>27.1#</b>	<b>112'</b>	<b>17"</b>	<b>125 sx Class "B" w/3% CaO</b>			
<b>8-5/8"</b>	<b>24#</b>	<b>1550'</b>	<b>11"</b>	<b>400 sx Lite Cnt &amp; 400 sx Class "B"</b>			
<b>5-1/2"</b>	<b>15.5#</b>	<b>5784'</b>	<b>7-7/8"</b>	<b>1000 cu.ft. 40% Diacel D,</b>			
				<b>100 sx Class "B"</b>			
29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					<b>2-1/2"</b>	<b>5547'</b>	
31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
1. 5706-16' (Tested Water & Squeezed)				DEPTH INTERVAL (MD)			
2. 5681-85' (Tested Water & Squeezed)				AMOUNT AND KIND OF MATERIAL USED			
3. 5681-85' (Tested Water & Squeezed)				<b>SEE ATTACHMENT NO. 1</b>			
4. 5594-5607'							
33.* PRODUCTION							
DATE FIRST PRODUCTION <b>11/25/75</b>		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) <b>Pumping 2-1/2" x 1-3/4" x 20'</b>				WELL STATUS (Producing or shut-in) <b>Producing</b>	
DATE OF TEST <b>12/5/75</b>	HOURS TESTED <b>24</b>	CHOKE SIZE <b>-</b>	PROD'N. FOR TEST PERIOD <b>→</b>	OIL—BBL. <b>118</b>	GAS—MCF. <b>109</b>	WATER—BBL. <b>0</b>	GAS-OIL RATIO <b>924</b>
FLOW. TUBING PRESS. <b>60#</b>	CASING PRESSURE <b>65#</b>	CALCULATED 24-HOUR RATE <b>→</b>	OIL—BBL. <b>118</b>	GAS—MCF. <b>109</b>	WATER—BBL. <b>0</b>	OIL GRAVITY-API (CORR.) <b>41</b>	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) <b>Sold</b>						TEST WITNESSED BY	
35. LIST OF ATTACHMENTS <b>Attachment No. 1</b>							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							

SIGNED F. C. Morgan TITLE Area Superintendent DATE May 6, 1976

3-USGS, Farmington, NM \*(See Instructions and Spaces for Additional Data on Reverse Side)  
2-Utah O&G CC, Salt Lake City, Utah  
1-B'Ville Prod 1-Denver Prod  
1-R. N. Hughes 1-File

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, and/or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not State and/or Federal records, geologists, sample and core analysis, all types electric, etc.), formations, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

on 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.  
 on 19: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.  
 on 20: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.  
 on 21: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.  
 on 22: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.  
 on 23: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.  
 on 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. For each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES		38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			<p>NAME</p> <p>MEAS. DEPTH</p> <p>TRUE VERT. DEPTH</p>
			<p>LOG TOPS</p> <p>Shinarump 2366'</p> <p>DeChelly 2665'</p> <p>Organ Rick 2825'</p> <p>Upper Hermosa 4585'</p> <p>Desert Creek 5588'</p>

PHILLIPS PETROLEUM COMPANY - RATHERFORD UNIT WELL NO. 18-23

ATTACHMENT NO. 1 - No. 32, Acid, Shot, Fracture, Cement Squeeze, Etc.

Perforated Desert Creek Zone II 5706-16' with 5" casing gun, Hyper Jet II, 2 HPF.

Spotted 300 gal 15% HCL. Displd acid w/7 BW. Acidized w/1000 gal 15% HCL. Displd acid w/35 BW. Acid contained 3 gal W-35 and 3 gal F-75. Pumped 24 ball sealers.

Ran Baker Cement Retainer set at 5696'. Mixed 100 sx Class "B". Displd 51 sx below retainer and squeezed perfs 5706-16'. Reversed out 49 sx.

Perforated Desert Creek Zone I 5681-85' and 5594-5607' with 4" casing gun, Hyper Jet II.

Acidized perfs 5681-85' w/1000 gal 28% HCL followed by 2000 gal flush.

Set Baker Model K Cement Retainer at 5649'. Mixed and pumped 150 sx Class "B" Cement w/1-1/4% CFR-2. Squeezed perfs 5681-85'. Reversed out 110 sx.

Re-perforated 5681-85'.

Acidized perfs 5681-85' w/1000 gal 15% HCL. Flushed w/17 BW.

Squeezed perfs 5681-85' w/50 sx Class "B" and reversed out 5 sx. Set Cement Retainer at 5640'.

Acid fraced interval 5594-5607' w/9500 gal 28% HCL in 5 stages, 10,000 gal KIX Emulsion in 5 - 2000 gal stages, followed w/15,000 gal slick water.

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 96-004192 ✓	
2. NAME OF OPERATOR Phillips Oil Company		6. IF INDIAN, ALLOTTED OR TRIBE NAME Navajo	
3. ADDRESS OF OPERATOR P. O. Box 2920, Casper, WY 82602		7. UNIT AGREEMENT NAME Ratherford Unit ✓	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface See Attached		8. FARM OR LEASE NAME	
14. PERMIT NO. See Attached		9. WELL NO.	
15. ELEVATIONS (Show whether DF, RT, GR, etc.)		10. FIELD AND POOL, OR WILDCAT N/A	
		11. SEC., T., R., M., OR BLK. AND SECTY OR AREA See Attached	
		12. COUNTY OR PARISH San Juan	
		13. STATE Utah	

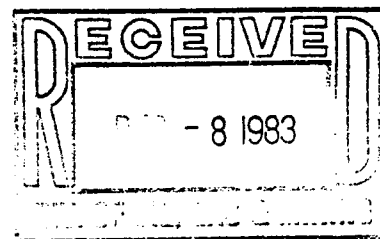
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

To show change of Operator only. Phillips Oil Company assumed operations effective December 1, 1983 from Phillips Petroleum Company. See attached for list of wells.



Org. & 3-BLM

1-The Navajo Nation  
1-Mary Wiley Black  
1-Lawrence E. Brock  
1-Chevron USA  
1-Ralph Faxe  
1-Royal Hogan  
1-W. O. Keller  
1-Dee Kelly Corp.

1-Robert Klabzuba  
1-Micheal J. Moncrief  
1-Richard B. Moncrief  
1-Lee W. Moncrief  
1-Mary H. Morgan  
1-W. A. Moncrief  
1-W. A. Moncrief, Jr.  
1-L. F. Peterson

1-Shell Oil Co.  
1-Southland Royalty Co.  
1-Superior Oil Co.  
1-Leroy Shave  
1-Texaco, Inc.  
1-Wade Wiley, Jr.  
1-Edwin W. Word, Jr.  
1-File

18. I hereby certify that the foregoing is true and correct

SIGNED A. E. Stuart TITLE Area Manager

DATE 12/6/83

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side

WELL NO.WELL LOCATIONAPI NO.STATUS

E14-12	SW NW Sec.14-T41S-R24E	43-037-15998	Act.
E14-13	NW SW Sec.14-T41S-R24E	43-037-15999	SI
10-44	SE SE Sec.10-T41S-R24E	43-037-30451	Act.
15-12	SW NW Sec.15-T41S-R24E	43-037-15715	Act.
15-14	SW SW Sec.15-T41S-R24E	43-037-15716	SI
15-22	SE NW Sec.15-T41S-R24E	43-037-30449	Act.
15-32	SW NE Sec.15-T41S-R24E	43-037-15717	Act.
15-33	NW SE Sec.15-T41S-R24E	43-037-15718	SI
15-41	NE NE Sec.15-T41S-R24E	43-037-15719	Act.
15-42	SE NE Sec.15-T41S-R24E	43-037-3-448	SI
16-12	SW NW Sec.16-T41S-R24E	43-037-15720	Act.
16-14	SW SW Sec.16-T41S-R24E	43-037-15721	Act.
16-32	SW NE Sec.16-T41S-R24E	43-037-15723	Act.
16-34	SW SE Sec.16-T41S-R24E	43-037-15724	SI
16-41	NE NE Sec.16-T41S-R24E	43-037-15725	Act.
17-12	SW NW Sec.17-T41S-R24E	43-037-15726	Act.
17-14	SW SW Sec.17-T41S-R24E	43-037-15727	Act.
17-23	NE SW Sec.17-T41S-R24E	43-037-15728	Act.
17-32	SW NE Sec.17-T41S-R24E	43-037-15729	Act.
17-34	SW SE Sec.17-T41S-R24E	43-037-15730	Act.
17-41	NE NE Sec.17-T41S-R24E	43-037-15731	Act.
17-44	SE SE Sec.17-T41S-R24E	43-037-15732	Act.
18-11	NW NW Sec.18-T41S-R24E	43-037-15733	SI
18-13	NW SW Sec.18-T41S-R24E	43-037-15734	Act.
18-14	SW SW Sec.18-T41S-R24E	43-037-15735	Act.
18-23	NE SW Sec.18-T41S-R24E	43-037-30244	Act.
18-32	SW NE Sec.18-T41S-R24E	43-037-15736	Act.
18-34	SW SE Sec.18-T41S-R24E	43-037-15737	Act.
19-12	SW NW Sec.19-T41S-R24E	43-037-15739	Act.
19-14	SW SW Sec.19-T41S-R24E	43-037-15740	SI
19-32	SW NE Sec.19-T41S-R24E	43-037-15743	Act.
19-34	SW SE Sec.19-T41S-R24E	43-037-15744	Act.
20-12	SW NW Sec.20-T41S-R24E	43-037-15746	Act.
20-14	SW SW Sec.20-T41S-R24E	43-037-15747	Act.
20-32	SW NE Sec.20-T41S-R24E	43-037-15749	Act.
20-34	SW SE Sec.20-T41S-R24E	43-037-15750	Act.
21-12	SW NW Sec.21-T41S-R24E	43-037-15752	Act.
21-14	SW SW Sec.21-T41S-R24E	43-037-15753	Act.
21-23	NE SW Sec.21-T41S-R24E	43-037-13754	Act.
21-32	SW NE Sec.21-T41S-R24E	43-037-15755	Act.
21-33	NW SE Sec.21-T41S-R24E	43-037-30447	SI
21-34	SW SE Sec.21-T41S-R24E	43-037-15756	Act.
22-12	SW NW Sec.22-T41S-R24E	43-037-15757	SI
22-14	SW SW Sec.22-T41S-R24E	43-037-15758	SI
24-42	SE NE Sec.24-T41S-R24E	43-037-15863	Act.
28-11	NW NW Sec.28-T41S-R24E	43-037-30446	Act.
28-12	SW NW Sec.28-T41S-R24E	43-037-15336	Act.
29-12	SW NW Sec.29-T41S-R24E	43-037-15337	Act.
29-32	SW NE Sec.29-T41S-R24E	43-037-15339	Act.



## BUREAU OF LAND MANAGEMENT

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		3. LEASE DESIGNATION AND SERIAL NO. 14-20-603-353 080625	
2. NAME OF OPERATOR Phillips Petroleum Company		4. UNIT ASSIGNMENT NAME Navajo	
3. ADDRESS OF OPERATOR P.O. Box 2920, Casper, WY 82602		5. FARM OR LEASE NAME Ratherford Unit	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2385' FSL, 2040' FNL (NE SW)		6. WELL NO. 18-23	
14. PERMIT NO. 43-037-30244		10. FIELD AND POOL, OR WILDCAT Greater Aneth	
15. ELEVATIONS (Show whether SP, ST, OR, etc.) 4808' RKB		11. SEC., T., R., E., OR S.E., AND SURVEY OR AREA Sec. 18-T41S-R24E	
		12. COUNTY OR PARISH San Juan	13. STATE Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐  
☐  
☒  
☐

PULL OR ALTER CASING

☐  
☐  
☐  
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANE

(Other) Convert to Water Injection

☒

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐  
☐  
☐

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

☐  
☐  
☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

It is proposed to convert Ratherford Unit #18-23 from a Zone I producing well to a Zone I water injection well. Upon conversion, the well will be acidized with approximately 2500 gallons of 28% HCl Acid, and placed on injection.

A 10' x 8' x 6' fenced pit will be constructed on location in a previously disturbed area. Upon completion of the workover, the pit will be dried and recovered.

5-BLM, Farmington, NM  
2-Utah O&G CC, Salt Lake City, Utah  
1-P. J. Adamson  
1-M. Williams, 302 TRW  
1-J. R. Weichbrodt  
1-B. J. Murphy  
1-File

RECEIVED  
MAY 21 1986

APPROVED BY THE STATE  
DIVISION OF OIL, GAS, AND MINING  
DATE: 7/30/86  
BY: [Signature]

Federal approval of this action  
is required before commencing  
operations.

18. I hereby certify that the foregoing is true and correct

SIGNED

[Signature]  
D. C. Gill

TITLE Area Manager

DATE May 14, 1986

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

# UIC CHECKLIST FOR APPLICATION APPROVAL

OPERATOR Phillips WELL NUMBER Ratherford 18-23  
 SEC. 18 T. 41S R. 24E COUNTY San Juan  
 API # 43-037-30244

NEW WELL        DISPOSAL WELL        ENHANCED RECOVERY WELL ✓

- Plat showing surface ownership	Yes <u>Feb.'86<sup>y</sup></u>	No <u>      </u>
- Application forms complete	Yes <u>✓</u>	No <u>      </u>
- Schematic of well bore	Yes <u>✓</u>	No <u>      </u>
- Adequate geologic information	Yes <u>Feb.'86</u>	No <u>      </u>
- Rate and Pressure information	Yes <u>Feb.'86</u>	No <u>      </u>
- Fluid source	Yes <u>Feb.'86</u>	No <u>      </u>
- Analysis of formation fluid	Yes <u>Feb.'86</u>	No <u>      </u>
- Analysis of injection fluid	Yes <u>Feb.'86</u>	No <u>      </u>
- USDW information	Yes <u>Feb.'86</u>	No <u>      </u>
- Mechanical integrity test	Yes <u>      </u>	No <u>✓</u>

Comments:         
        
        
      

\* Info submitted in Feb. 1986

Reveiwed by Dorothy Swindel

## APPLICATION FOR INJECTION WELL

Operator: Phillips Petroleum Company Telephone: (307)237-3791

Address: P. O. Box 2920

city: Casper state: Wyoming zip: 82602

Well no.: 18W23 Field or Unit name: Rutherford Unit

Sec.: 18 Twp.: 41S Rng.: 24E County: San Juan Lease no. 14-20-603-353

	YES	NO
Is this application for expansion of an existing project?.....	X	
Will the proposed well be used for: Enhanced recovery?.....	X	
Disposal?.....		
Storage?.....		
Is this application for a new well to be drilled?.....		X
Has a casing test been performed for an existing well?.....		X
(If yes, date of test:_____)		

Injection interval: from 5594' to 5607'

Maximum injection: rate 500 BWPD pressure 3000 psig

Injection zone contains   X   oil,   X   gas or        fresh water within 1/2 mile.

**Additional information as required by Rule 502 should accompany this form.**

I hereby certify that the foregoing is true and correct to the best of my knowledge:

Signed: D.C. Gill Title: Area Manager Date: 6/9/86  
D.C. Gill

(This space for DOGM approval)

RECEIVED  
JUN 12 1986

## DIVISION OF OIL, GAS & MINING

Approved by: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

LOCATION: NESW Sec 18 - T41S - R24 E

FIELD: GREATER AN H

RESERVOIR: Desert Creek Zone I

COMPLETION: Injector  
PRESENT STATUS: Conversion

RKB 4805'

GL 4793'

112'

SURFACE CASING: 13 3/8"  
27.1 #

INTERMEDIATE CASING: 8 5/8"  
24 #

PRODUCTION CASING: 5 1/2"  
15.5 #

Well #: 18W23

1550'

PERFORATIONS: \_\_\_\_\_

5594' - 5607'

Logs on file: \_\_\_\_\_

Gamma Ray

SP

Neutron Porosity

Electrical Resistivity

Caliper

Density Porosity

PACKER: Baker Model AB  
Tension Type Pkr or  
Similar Set @ 5494'

PBTD: 5640'

OTD: 5785'

5784'

RECEIVED  
JUN 12 1986

DIVISION OF  
OIL, GAS & MINING

Phillips Petroleum Company



**PHILLIPS PETROLEUM COMPANY**

CASPER, WYOMING 82602  
BOX 2920

June 9, 1986 EXPLORATION AND PRODUCTION GROUP

**RECEIVED**  
JUN 12 1986

DIVISION OF  
OIL, GAS & MINING

State of Utah  
Division of Oil, Gas, and Mining  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Attn: Gil Hunt

RE: Ratherford Unit  
San Juan County  
Class II Injection Well  
Conversions

Dear Mr. Hunt:

Enclosed are applications of conversions for twelve more injection wells in the Ratherford Unit. The well numbers are:

11-W44	13-W24	17-W34
12-W22	13-W42	18-W23
12-W31	17-W12	18-W32
12-W42	17-W23	18-W34

We appreciate the effort put forth in revising and streamlining the UIC program for enhanced recovery wells, the elimination of duplication makes permitting much easier.

The additional information required should not be a burden on the regulated industry. We have listed, on each well bore schematic, the logs on file for that well. We have also enclosed a copy of our letters to mineral lease operators and landowners in the area informing them of these proposed well conversions. The enclosed Attachment 6 is a supplement to the original informational package on the conversion program sent in February 1986. Please contact Renee Taylor at (307) 237-3791 with any questions.

Thank you again for your efforts to make this program more workable for all involved.

Sincerely,

PHILLIPS PETROLEUM COMPANY

*D. C. Gill*  
D. C. Gill  
Area Manager

RCT/fb (23)

Attach

cc: B. J. Murphy - Casper w/o attach  
J. R. Weichbrodt - Cortez w/attach.  
Casper RC

Casing & Cementing Program  
Ratherford Unit

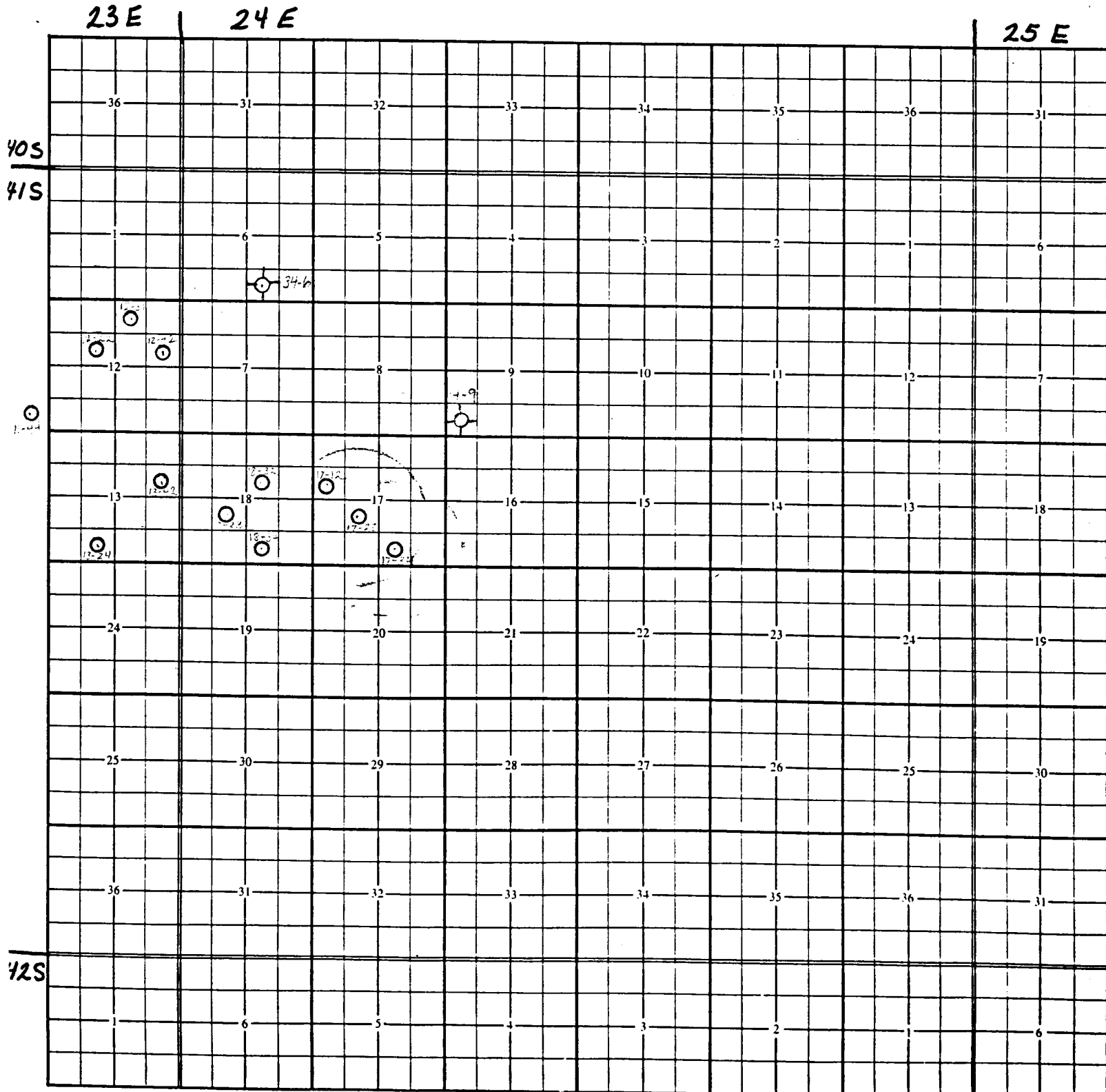
The casing and cementing program at the Ratherford Unit has been designed so that injected fluid or formation water will not be able to enter any fresh water strata. All wells have at least two strings of casing set at approximately 1600' and 5700' (TD). The majority of wells also have a string of casing set at approximately 140'. The following is a summary of the casing and cementing program:

<u>Casing Depth</u>	<u>Range of Casing Sizes</u>	<u>Range of Cement (sx)</u>
140'	20" - 13 5/8"	175 - 125
1600'	13 3/8" - 8 5/8"	800 - 200
5700'	8 5/8" - 5 1/2"	900 - 200

# TOWNSHIP PLAT

Owner PHILLIPS PETROLEUM Date 6/13/86

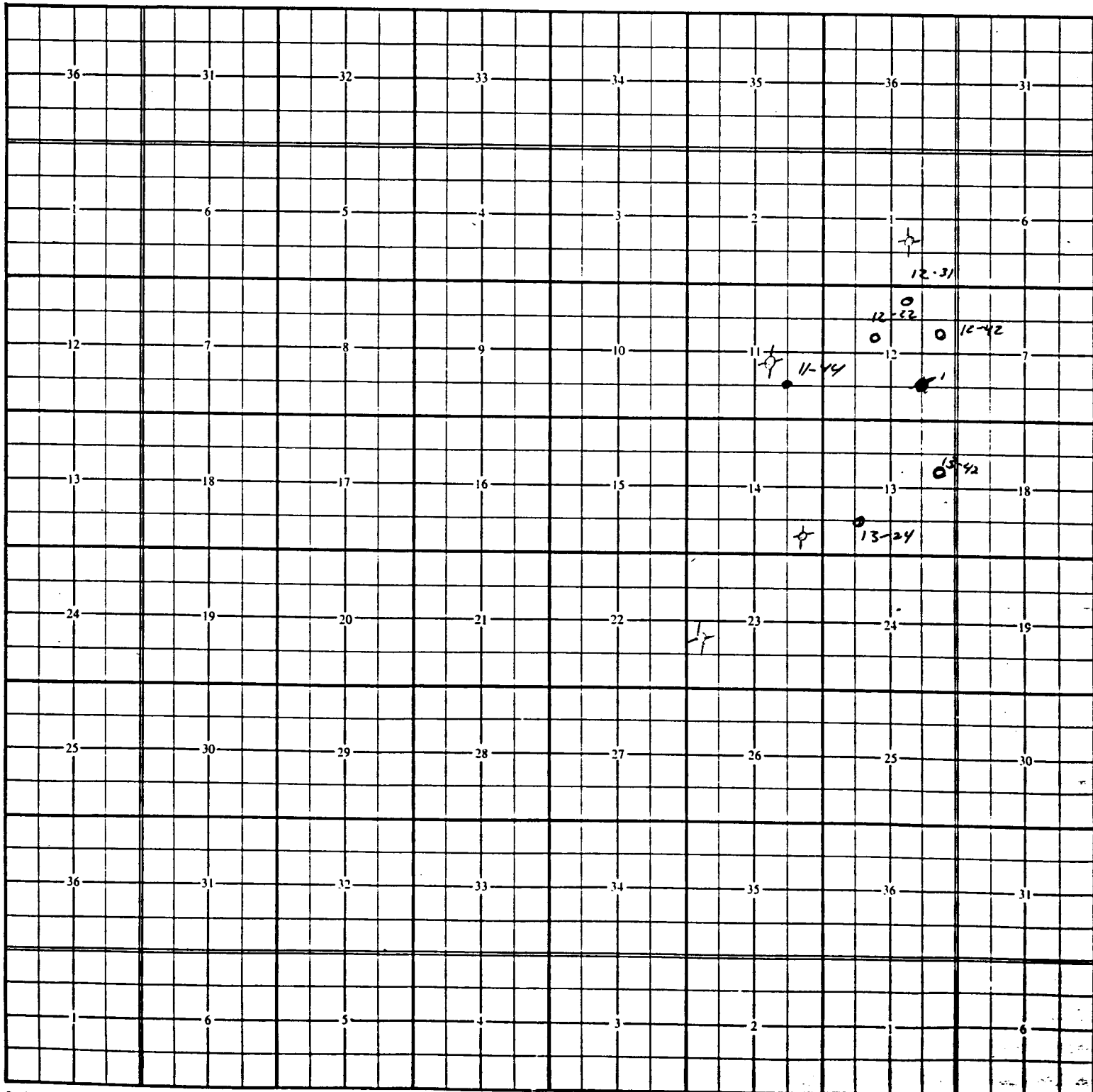
Township 41S Range 24E County SAN JUAN



# TOWNSHIP PLAT

Owner Phillips Petroleum Date 6/12/86

Township 41S Range 23E County SAN JUAN





P.O. Box 2920, Casper, Wyoming 82602

RECEIVED  
JUN 12 1986

June 10, 1986

DIVISION OF  
OIL, GAS & MINING

Mobile Oil Corp.  
P.O. Box 5444  
Denver, CO 80217  
Attn: Joint Interest Advisor

Re: Ratherford Unit  
Injection Well Conversions

Dear Sirs,

Phillips Petroleum Company has made application to the State of Utah, Division of Oil, Gas and Mining to convert twelve existing producing wells to water injection wells in the Ratherford Unit secondary recovery project. The revised rule 502(b)(12) requires that you are notified of these plans and are provided with a copy of the application for injection well (Form DOGM-UIC-1). Under Rule 503 you are provided with the opportunity to object to the proposed application.

"Applications for Injection Well" are attached for the following existing wells:

11-W44	13-W24	17-W34
12-W22	13-W42	18-W23
12-W31	17-W12	18-W32
12-W42	17-W23	18-W34

Please contact Renee Taylor or Blair Murphy at (307) 237-3791 with any questions.

Sincerely,

D. C. Gill  
Area Manager

RCT/lc (17)

cc: B. J. Murphy-Casper  
J. R. Weichbrodt-Cortez  
Casper-RC  
St. of Utah OG&M/UIC

P.O. Box 2920, Casper, Wyoming 82602

June 10, 1986

Navajo Tribe  
Minerals Department  
P.O. Box 146  
Window Rock, AZ 86515

Re: Ratherford Unit  
Injection Well Conversions

Dear Sirs,

Phillips Petroleum Company has made application to the State of Utah, Division of Oil, Gas and Mining to convert twelve existing producing wells to water injection wells in the Ratherford Unit secondary recovery project. The revised rule 502(b)(12) requires that you are notified of these plans and are provided with a copy of the application for injection well (Form DOGM-UIC-1). Under Rule 503 you are provided with the opportunity to object to the proposed application.

"Applications for Injection Well" are attached for the following existing wells:

11-W44	13-W24	17-W34
12-W22	13-W42	18-W23
12-W31	17-W12	18-W32
12-W42	17-W23	18-W34

Please contact Renee Taylor or Blair Murphy at (307) 237-3791 with any questions.

Sincerely,

D. C. Gill  
Area Manager

RCT/lc (17)

cc: B. J. Murphy-Casper  
J. R. Weichbrodt-Cortez  
Casper-RC  
St. of Utah OG&M/UIC

P.O. Box 2920, Casper, Wyoming 82602

June 10, 1986

Texaco, Inc.  
P.O. Box 3360  
Casper, WY 82602  
Attn: A. J. Sanford

Re: Ratherford Unit  
Injection Well Conversions

Dear Sirs,

Phillips Petroleum Company has made application to the State of Utah, Division of Oil, Gas and Mining to convert twelve existing producing wells to water injection wells in the Ratherford Unit secondary recovery project. The revised rule 502(b)(12) requires that you are notified of these plans and are provided with a copy of the application for injection well (Form DOGM-UIC-1). Under Rule 503 you are provided with the opportunity to object to the proposed application.

"Applications for Injection Well" are attached for the following existing wells:

11-W44	13-W24	17-W34
12-W22	13-W42	18-W23
12-W31	17-W12	18-W32
12-W42	17-W23	18-W34

Please contact Renee Taylor or Blair Murphy at (307) 237-3791 with any questions.

Sincerely,

D. C. Gill  
Area Manager

RCT/lt (17)  
cc: B. J. Murphy-Casper  
J. R. Weichbrodt-Cortez  
Casper-RC  
St. of Utah OG&M/UIC



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

June 23, 1986

Newspaper Agency Corporation  
Legal Advertising  
143 South Main - Mezzanine Floor  
Salt Lake City, Utah 84110

Gentlemen:

RE: Cause No. UIC-083

Enclosed is a Notice of Application of Administrative Approval before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible, but no later than the 2nd day of July, 1986. In the event that said notice cannot be published by this date, please notify me immediately by calling 538-5340.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

Marjorie L. Anderson  
Administrative Assistant

mfp

Enclosure



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

June 23, 1986

San Juan Record  
Legal Advertising  
Box 879  
Monticello, Utah 84535

Gentlemen:

RE: Cause No. UIC-083

Enclosed is a Notice of Application of Administrative Approval before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible, but no later than the 2nd day of July, 1986. In the event that said notice cannot be published by this date, please notify me immediately by calling 538-5340.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

Marjorie L. Anderson  
Administrative Assistant

mfp

Enclosure

UIC-083

Publication was sent to the following:

Utah State Department of Health  
Water Pollutioncontrol  
Attn: Loren Morton  
4241 State Office Building  
Salt Lake City, Utah 84114

U.S. Environmental Protection Agency  
Suite 1300  
Attn: Mike Streiby  
999 18th Street  
Denver, Colorado 80202-2413

Bureau of Land Management  
Fluid Minerals Caller Service #4104  
Farmington, New Mexico 87499

Phillips Petroleum Company  
PO Box 2920  
Casper Wyoming 82602

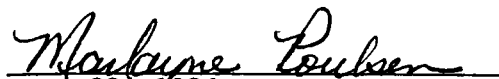
Mobil Oil Corporation  
PO Box 5444  
Denver, Colorado 80217

Navajo Tribe  
Minerals Development  
PO Box 146  
Window Rock, Arizona 86515

Texaco, Incorporated  
PO Box 3360  
Casper, Wyoming 82602

Newspaper Agency Corporation  
Legal Advertising  
143 South Main - Mezzanine Floor  
Salt LakeCity, Utah 84110

San Juan Record  
Legal Advertising  
Box 879  
Monticello, Utah 84535

  
June 23, 1986

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH

---00000---

IN THE MATTER OF THE APPLICATION : CAUSE NO. UIC-083  
OF PHILLIPS PETROLEUM COMPANY, :  
FOR ADMINISTRATIVE APPROVAL TO :  
INJECT FLUID INTO WELLS TO BE :  
CONVERTED TO ENHANCED RECOVERY :  
INJECTION WELLS LOCATED IN SEC- :  
TIONS 11, 12 AND 13, TOWNSHIP 41 :  
SOUTH, RANGE 23 EAST; AND SECTIONS :  
17, AND 18, TOWNSHIP 41 SOUTH, :  
RANGE 24 EAST, S.L.M. SAN JUAN :  
COUNTY, UTAH :

---00000---

THE STATE OF UTAH TO ALL INTERESTED PARTIES IN THE ABOVE ENTITLED  
MATTER.

Notice is hereby given that Phillips Petroleum Company, P.O. Box  
2920, Casper, Wyoming 82602, has requested administrative approval from  
the Division to convert the following listed wells to enhanced  
recovery water injection wells:

RATHERFORD UNIT - San Juan County, Utah

#11-44, Sec. 11, T41S, R23E	#17-12, Sec. 17, T41S, R24E
#12-22, Sec. 12, T41S, R23E	#17-23, Sec. 17, T41S, R24E
#12-31, Sec. 12, T41S, R23E	#17-34, Sec. 17, T41S, R24E
#12-42, Sec. 12, T41S, R23E	#18-23, Sec. 18, T41S, R24E
#13-24, Sec. 13, T41S, R23E	#18-32, Sec. 18, T41S, R24E
#13-42, Sec. 13, T41S, R23E	#18-34, Sec. 18, T41S, R24E

INJECTION INTERVAL: Desert Creek 5317' to 5712'  
MAXIMUM ESTIMATED SURFACE PRESSURE: 3000 psig  
MAXIMUM ESTIMATED WATER INJECTION RATE: 500 BWPD

Approval of this Application will be granted unless objections are  
filed with the Division of Oil, Gas and Mining within fifteen days  
after publication of this Notice. Objections, if any, should be  
mailed to the Division of Oil, Gas and Mining, Attention: UIC Program  
Manager, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake  
City, Utah 84180-1203.

DATED this 20th day of June, 1986.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

  
MARJORIE L. ANDERSON  
Administrative Assistant

# Affidavit of Publication

ADM-35B

STATE OF UTAH,  
County of Salt Lake

SS.

Sharon Payne

BEFORE THE DIVISION OF  
OIL, GAS AND MINING  
DEPARTMENT OF  
NATURAL RESOURCES  
STATE OF UTAH  
CAUSE NO. UIC-083

IN THE MATTER OF THE  
APPLICATION OF PHILLIPS  
PETROLEUM COMPANY, FOR  
ADMINISTRATIVE APPROVAL  
TO INJECT FLUID INTO  
WELLS TO BE CONVERTED  
TO ENHANCED RECOVERY  
INJECTION WELLS LOCATED  
IN SECTIONS 11, 12 AND 13,  
TOWNSHIP 41 SOUTH, RANGE  
23 EAST; AND SECTIONS 17,  
AND 18, TOWNSHIP 41 SOUTH,  
RANGE 24 EAST, S.L.M. SAN  
JUAN COUNTY, UTAH.

THE STATE OF UTAH TO  
ALL INTERESTED PARTIES IN  
THE ABOVE ENTITLED MAT-  
TER.

Notice is hereby given that  
Phillips Petroleum Company,  
P.O. Box 2920, Casper, Wyo-  
ming 82602, has requested ad-  
ministrative approval from the  
Division to convert the follow-  
ing listed wells to enhanced re-  
covery water injection wells:

RATHERFORD UNIT  
San Juan County, Utah

#11-44, Sec. 11, T41S, R23E  
#12-22, Sec. 12, T41S, R23E  
#12-31, Sec. 12, T41S, R23E  
#12-42, Sec. 12, T41S, R23E  
#13-24, Sec. 13, T41S, R23E  
#13-42, Sec. 13, T41S, R23E  
#17-12, Sec. 17, T41S, R24E  
#17-23, Sec. 17, T41S, R24E  
#17-34, Sec. 17, T41S, R24E  
#18-23, Sec. 18, T41S, R24E  
#18-32, Sec. 18, T41S, R24E  
#18-34, Sec. 18, T41S, R24E

Injection Interval: Desert  
Creek 5317 to 5712 ft.  
Maximum Estimated Sur-  
face Pressure: 3000 psig  
Maximum Estimated Wa-  
ter Injection Rate: 500  
BWPD

Approval of this Application  
will be granted unless objec-  
tions are filed with the division  
of Oil, Gas and Mining within fif-  
teen days after publication of  
this Notice. Objections, if any,  
should be mailed to the Division  
of Oil, Gas and Mining, Atten-  
tion: UIC Program Manager,  
355 West North Temple, 3 Triad  
Center, Suite 350, Salt Lake  
City, Utah 84180-1203.

DATED this 20th day of June,  
1986.

STATE OF UTAH  
DIVISION OF OIL  
AND GAS

Being first duly sworn, deposes and says that he/she is legal advertising clerk of THE SALT LAKE TRIBUNE, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah, and of the DESERET NEWS, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah.

That the legal notice of which a copy is attached hereto

Cause No. UIC-083

was published in said newspaper on

July 2, 1986

Legal Advertising Clerk

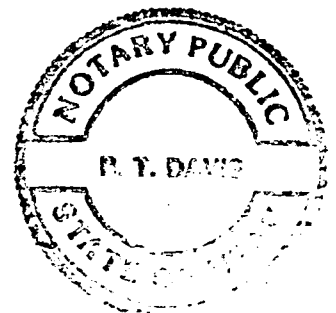
Subscribed and sworn to before me this 10th day of

July A.D. 1986

Notary Public

My Commission Expires

March 01, 1988





# AFFIDAVIT OF PUBLICATION

## Public notice

BEFORE THE DIVISION OF  
OIL, GAS AND MINING  
DEPARTMENT OF  
NATURAL RESOURCES  
STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF PHILLIPS PETROLEUM COMPANY, FOR ADMINISTRATIVE APPROVAL TO INJECT FLUID INTO WELLS TO BE CONVERTED TO ENHANCED RECOVERY INJECTION WELLS LOCATED IN SECTIONS 11, 12 AND 13, TOWNSHIP 41 SOUTH, RANGE 23 EAST; AND SECTIONS 17, AND 18, TOWNSHIP 41 SOUTH, RANGE 24 EAST, S.L.M. SAN JUAN COUNTY, UTAH

CAUSE NO. UIC-083

THE STATE OF UTAH TO ALL INTERESTED PARTIES IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that Phillips Petroleum Company, P.O. Box 2920, Casper, Wyoming 82602, has requested administrative approval from the Division to convert the following listed wells to enhanced recovery water injection wells:

RATHERFORD UNIT,  
SAN JUAN COUNTY, UTAH

#11-44, Sec. 11, T41S, R23E

#12-22, Sec. 12, T41S, R23E

#12-31, Sec. 12, T41S, R23E

#12-42, Sec. 12, T41S, R23E

#13-24, Sec. 13, T41S, R23E

#13-42, Sec. 13, T41S, R23E

#17-12, Sec. 17, T41S, R24E

#17-23, Sec. 17, T41S, R24E

#17-34, Sec. 17, T41S, R24E

#18-23, Sec. 18, T41S, R24E

#18-32, Sec. 18, T41S, R24E

#18-34, Sec. 18, T41S, R24E

INJECTION INTERVAL: Desert  
Creek 5317' to 5712'

MAXIMUM ESTIMATED SURFACE  
PRESSURE: 3000 psig

MAXIMUM ESTIMATED WATER  
INJECTION RATE: 500 BWPD

Approval of this Application will be granted unless objections are filed with the Division of Oil, Gas and Mining within fifteen days after publication of this Notice. Objections, if any, should be mailed to the Division of Oil, Gas and Mining, Attention: UIC Program Manager, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

DATED this 20th day of June, 1986.

STATE OF UTAH

DIVISION OF OIL,

GAS AND MINING

s/ Marjorie L. Anderson

Administrative Assistant

Published in The San Juan Record  
July 2, 1986.

I, Joyce Martin, being duly sworn, depose and say that I am the publisher of **The San Juan Record**, a weekly newspaper of general circulation published at Monticello, Utah every Wednesday; that notice of Cause No. UIC-083

a copy of which is hereunto attached, was published in the regular and entire issue of each number of said newspaper for a period of one issues, the first publication having been made on July 2, 1986. and the last publication having been made on \_\_\_\_\_.

Joyce A. Martin  
Publisher

Subscribed and sworn to before me this 2nd day of July.

A.D. 1986

Ingrid K. Adams  
Notary Public residing at Monticello, Utah

My commission expires December 2, 1987



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

July 18, 1986

072104

Phillips Petroleum Company  
P.O. Box 2920  
Casper, Wyoming 82602

Gentlemen:

RE: Injection Well Approval - Cause No. UIC-083

Insofar as this Division is concerned, administrative approval is hereby granted to convert the following wells to Class II enhanced recovery injection wells:

RATHERFORD UNIT - San Juan County, Utah

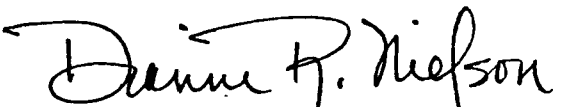
#11-44, Sec. 11, T41S, R23E  
#12-22, Sec. 12, T41S, R23E  
#12-31, Sec. 12, T41S, R23E  
#12-42, Sec. 12, T41S, R23E  
#13-24, Sec. 13, T41S, R23E  
#13-42, Sec. 13, T41S, R23E

#17-12, Sec. 17, T41S, R24E  
#17-23, Sec. 17, T41S, R24E  
#17-34, Sec. 17, T41S, R24E  
#18-23, Sec. 18, T41S, R24E  
#18-32, Sec. 18, T41S, R24E  
#18-34, Sec. 18, T41S, R24E

This approval is conditional upon full compliance with the UIC rules and regulations adopted by the Board of Oil, Gas and Mining, and construction and operation of the wells as outlined in the application submitted.

If you have any questions concerning this matter, please do not hesitate to call or write.

Best regards,

  
Dianne R. Nielson  
Director

mfp  
7627U



Commencement

DESCRIPTION			COMP TYPE	W.I.	WELL CLASS	PROD. METHOD	WELL TEST										MONTHLY					REMARK																		
LEASE CODE	LEASE NAME	WELL NO.					DATE	CLOCK	WELL HEAD PRESSURE PSIG	SEPARATOR		OIL OR COND. R/D	GAS MCF/D	WATER B/D	GOR CF/B	WTR %	OIL GR. API	DAYS OPD	ALLOWABLE BBLs. or MCF	OIL or COND. BBLs.	GAS MCF	WATER BBLs.	CODE	DATE																
										PRESS. PSIG	TEMP. °F.													MO.	DY.	YR.														
X933028	NE SE 17 41S24E	17W43S		022WI				2350							30				156912	83085																				
X933028	SW SW 18 41S24E	18W14S		022WI				2300							30				513070	62386																				
X933028	NE NW 18 41S24E	18W21S		022WI				2100							30				26917	41886																				
X933028	SW NE 18 41S24E	18W32S		022WI				2200							30				273007	101086																				
X933028	NE NE 18 41S24E	18W41S		022WI				2125							30				91112	91656																				
X933028	NE SE 18 41S24E	18W43S		022WI															150611	177																				
X933028	NE NW 19 41S24E	19W21S		022WI				2150							30				361111	52985																				
X933028	NE SW 19 41S24E	19W23S		022WI				2125							30				1034617	110186																				
X933028	NE NE 19 41S24E	19W41S		022WI				2100							30				110617	11184																				
X933028	NE SE 19 41S24E	19W43S		022WI				2100							30				469317	13185																				
X933028	NE NW 20 41S24E	20W21S		022WI				2050							30				26911	62084																				
X933028	NE SW 20 41S24E	20W23S		022WI				2100							30				407511	101384																				
X933028	NE NE 20 41S24E	20W41S		022WI				2250							30				230111	31685																				
X933028	NE SE 20 41S24E	20W43S		022WI				2150							30				484217	1185																				
X933028	NE NW 21 41S24E	21W21S		022WI				2225							30				591017	12784																				
X933028	NE NE 21 41S24E	21W41S		022WI															15	62183																				
X933028	NE SE 21 41S24E	21W43S		022WI															151011	84																				
X933028	NE NW 22 41S24E	22W21S		022WI															15	92267																				
X933028	NE NW 24 41S23E	24W21S		022WI															150813	86																				
X933028	NE SE 24 41S23E	24W43S		022WI				2225							30				1164217	10184																				
X933028	NE NW 28 41S24E	28W21S		022WI				2200							30				33117	82485																				
X933028	NE NW 29 41S24E	29W21S		022WI				2000							30				764717	1184																				
X933028	NE SW 29 41S24E	29W23S		022WI															15	1185																				
X933028	NE NE 29 41S24E	29W41S		022WI				2100							30				739411	42285																				
X933028	NE SE 29 41S24E	29W43S		022WI															161115	86																				
X933028	NE NW 30 41S24E	30W21S		022WI															15	7185																				
X933028	NE NE 30 41S24E	30W41S		022WI				2100							30				179517	081686																				
X933028	NE SE 30 41S24E	30W43S		022WI															15	22477																				
LEASE RESER TOT 933028																			199778																					
RESERVOIR TOTAL 104ANETH - RATHERFORD UNIT																			199778																					
106 SAN JUAN RVR - ALLUVIUM																																								
X933028	NE NE 5 41S24E	S01S		022WSRP																1511	181																			
X933028	NE NE 5 41S24E	S02S		022WSRP											30				17	1285																				
X933028	NE NE 5 41S24E	S03S		022WS															15	1769																				
X933028	NE NE 5 41S24E	S04S		022WSRP															15	2178																				
X933028	NE NE 5 41S24E	S05S		022WSRP											30				212	183																				
X933028	NE NE 5 41S24E	S06S		022WSRP											30				212	183																				
X933028	NN NW 4 41S24E	S07S		022WSRP											30				212	183																				

4

MONTHLY WELL PRODUCTION REPORT

FORM S/B 7451-N 12-83

#### COMPLETION TYPE

1st Space S Single  
C Commingled  
D Dual  
T Triple  
2nd Space U Upper  
M Middle  
L Lower  
C Commingled  
3rd Space T Tubing  
C Casing

#### WELL CLASSIFICATION

O Oil  
OC Oil (cond.)  
AG Asso. gas (dry)  
AC Asso. gas (cond.)  
NG Non-asso. gas (dry)  
NC Non-asso. gas (cond.)  
GI Gas injection

#### W.I. Water Injection

WD Salt water disposal  
WS Water supply  
M Miscellaneous

#### PRODUCING METHOD

NF Natural flow  
PL Plunger lift

#### GC Gas lift, continuous

GI Gas lift, intermittent  
PE Pump, rod, engine  
PM Pump, rod, elec motor  
HP Hydraulic pump  
RP Red pump  
S Swabbing  
M Miscellaneous

#### WELL TEST DATE

ES Some data estimated

#### CHOKE SIZE

AD Adjustable  
NO No choke

#### MONTHLY ALLOWABLE

D Discovery allow.  
L Limited allow.  
M Marginal  
P Penalized (high GOR)  
MONTHLY GAS  
V Some gas vented  
E Estimated

DISTRICT 34

#### REMARK CODE

01 Drilled and completed  
02 Acquired  
03 Trd. to EDP system  
04 Recompletion (new)  
05 New comp. (commingling stopped)  
06 New comp. (commingling started)  
07 New classification (converted)

#### 10 New identification

11 Stimulation treatment  
12 Workover, same reservoir  
13 Artificial lift installed  
14 Reclassified (oil or gas)  
15 Shut down (only)  
16 Shut down (service work)  
17 Activated

#### 20 P&A

21 Sold for plugging  
22 Sold for future operations  
23 Transferred from EDP system  
24 Completion abandoned  
25 Old comp. (commingling stopped)  
26 Old comp. (before commingling)  
27 Old classification (converted)

DATE 11 86 PAGE 6

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other Instructions on  
Reverse Side)

Form approved  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OFF WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Water Injector		2. LEASE DESIGNATION AND SERIAL NO. 14-20-603-353	
3. NAME OF OPERATOR Phillips Petroleum Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NAVAJO	
4. ADDRESS OF OPERATOR P.O. Box 2920, Casper, WY 82602		7. UNIT ASSIGNMENT NAME SW-I-4192	
5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2385' FSL, 2040' FNL NE SW		8. NAME OF LEASE NAME Ratherford Unit	
API# 43-037-30244		9. WELL NO. 18W23	
14. PERMIT NO.		10. FIELD AND POOL, OR WILDCAT Greater Aneth	
15. ELEVATIONS (Show whether SP, ST, GR, etc.) 4808' RKB		11. SEC., T., R., E., OR NE. AND SECTION OR AREA Sec. 18-T41S-R24E	
		12. COUNTY OR PARISH San Juan	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	(Other) Convert to water injection	<input checked="" type="checkbox"/>
(Other)	<input type="checkbox"/>	(Other)	<input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Oct. 24, 1986 through Nov. 14, 1986

MI and RU 10/24/86. Attempt to circ, no circ. Test cmt retainer at 5640' to 2200 psi, press dropped to 0 psi. Set retainer at 5580'. Sqzd w/200 sx Class B cmt. Drld on retainer and cmt to 5620'. Test csg to 1000 psi for 10 min, OK. Perf 5594-5608'. Pumped in 13-1/2 bbls acid. Displaced w/19 bbls lease wtr. Drill thru cmt retainer to 5685'. Set cmt retainer at 5575'. Sqzd Zones I & II w/200 sx Class B cmt. Drill thru cmt retainer to 5620'. Tested Zone II sqz- OK. Perfd Zone I 5594-5608'. Acidized Zone I w/2100 gal 28% HCL. Zone I & II comm. Set cmt retainer at 5572'. Sqz below retainer w/200 sx Class B cmt. Drill to 5623'. Test sqz, OK. Perf 5594'-5608'. Acidized Zone I using 1500 gal 28% HCL. Swabbed back load. TIH w/injection tbg & pkr. Set at 5532'. RD 11/14/86. HU to injection 11/17/86.

Production Before shut down  
Injection After 163 BWPd @ 2200 psi

4-BLM, Farmington, NM 1-Chieftain  
2-Utah O&G CC, SLC, UT 1-Mobil Oil  
1-M. Williams, B'Ville 1-Texaco, Inc.  
1-J. Landrum, Denver 1-Chevron USA  
1-J. Reno, Cortez 1-File RC

18. I hereby certify that the foregoing is true and correct

SIGNED D. C. Gill TITLE Area Manager DATE 7/27/87

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instruction on re-  
verse side)

Budget Bureau No. 1004-0135  
Expires August 31, 1985

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER WATER INJECTION & WATER SUPPLY WELLS		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR PHILLIPS PETROLEUM COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME SW-I-4192
3. ADDRESS OF OPERATOR 152 N. DURBIN, 2ND FLOOR, CASPER, WYOMING 82601		7. UNIT AGREEMENT NAME RATHERFORD UNIT #7960041920
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface  <u>SEE ATTACHED</u>		8. FARM OR LEASE NAME
14. PERMIT NO.		9. WELL NO. VARIOUS (see attached)
15. ELEVATIONS (Show whether OF, ST, OR, etc.) OIL, GAS & MINING MAR 20 1989		10. FIELD AND POOL, OR WILDCAT GREATER ANETH
		11. SEC., T., R., N., OR S.W. AND SURVEY OR AREA Sections 1 thru 30 T41S - R23E & 24E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANE <input type="checkbox"/>	(Other) CHANGE OF OWNERSHIP <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

This is to advise all Water Injection and Water Supply Wells on the Ratherford Unit, listed on the attached sheet, were sold to Phillips Petroleum Company, effective August 1, 1985.

(former Operator - Phillips Oil Company)

3 - BLM, Farmington, NM  
2 - Utah O&G CC, SLC, UT  
1 - File

18. I hereby certify that the foregoing is true and correct

SIGNED S. H. Oden

TITLE District Superintendent

DATE March 17, 1989

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side

# DOWNHOLE SCHEMATIC

Date: 8/6/87

RATHERFORD Unit # 18W23

Location NE SW Sec. 18  
T41S-R24E

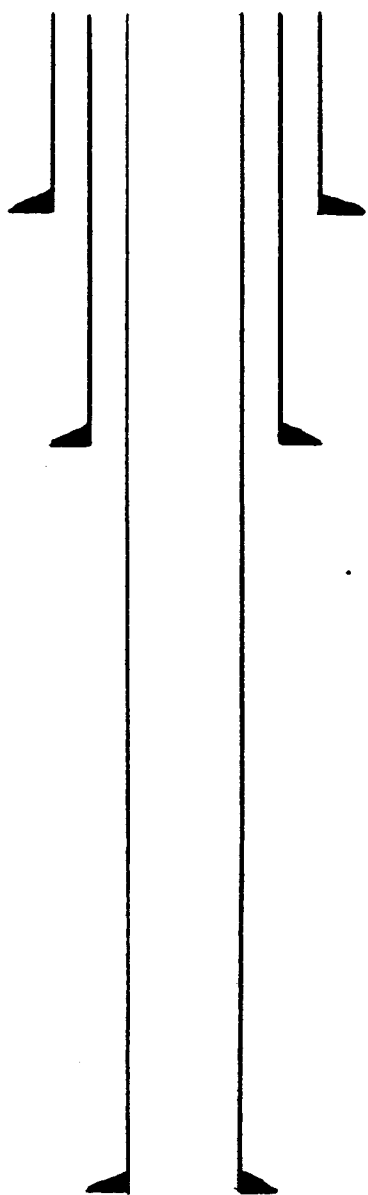
RKB Elev. 4808'

Well Drld 11/25/75

GL Elev. 4795'

Well converted  
to injector 11/14/86

RKB Above GL' 13'



CONDUCTOR Csg 13<sup>3</sup>/<sub>8</sub> @ 112'

SURFACE Csg. 8<sup>5</sup>/<sub>8</sub> @ 1550'

TOC 3500' CALC

Tubing 2<sup>3</sup>/<sub>8</sub> @ 5540' Duo/line HT2

PACKER Otis Inter-lock PKR  
@ 5540'

PERFS	<u>5594 - 5607</u>	<u>          </u>	<u>          </u>
	<u>          </u>	<u>          </u>	<u>          </u>
	<u>          </u>	<u>          </u>	<u>          </u>
	<u>          </u>	<u>          </u>	<u>          </u>

PBTD 5623'

PRODUCTION Csg. 5<sup>1</sup>/<sub>2</sub>" @ 5784'  
K-55, 15.5#

All PERFS ZONE I UNLESS NOTED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

NOV 05 1990

DIVISION OF  
OIL, GAS & MINES

5. Lease Designation and Serial No.  
14-20-603-353

6. If Indian, Allottee or Tribe Name

Navajo Tribal

7. Unit or CA, Agreement Designation

SW-I-4192

Ratherford Unit

8. Well Name and No.

Ratherford Unit #18W23

9. API Well No.

43-037-30244

10. Field and Pool, or Exploratory Area

Greater Aneth

11. County or Parish, State

San Juan County, Utah

1. Type of Well  
☐ Oil Well ☐ Gas Well ☒ Other Injector

2. Name of Operator  
Phillips Petroleum Company

3. Address and Telephone No.  
P. O. Box 1150, Cortez, CO 81321 (303) 565-3426

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2385' FSL & 2040' FWL, NE SW, Sec. 18-T41S-R24E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Clean out Well  
Perform UIC Test
- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

October 12, 1990 Through October 17, 1990

MI & RU well service unit 10/12/90. ND wellhead, NU BOP. Rel 5-1/2" Otis Interlock pkr & COOH w/171 jts Rice duolined tbg & pkr. GIH w/bit & scraper & cleaned out well to PBTD 5623'. COOH. PU & GIH w/5-1/2" Otis Interlock pkr w/on-off tool & expendable tbg test plug & 171 jts 2-3/8" Rice duolined tbg, drifting barrier rings & pressuring tbg to 3000 psi. Set pkr at 5536' & pressured annulus to 1000 psi. OK. Disengaged on-off tool, pmpd 120 bbls wtr w/27 gals Well Chem WA-840 for pkr fluid. Engaged on-off tool. ND BOP, NU wellhead. Pressured annulus to 1110 psi for 45 min for UIC test. Held OK. Hooked up injection line to well, RD & MO well service, and returned well to injection 10/17/90.

Injection Rate Prior to Work - 44 BWPD @ 2575 psi  
Injection Rate After Work - 115 BWPD @ 2550 psi

Distribution

5 - BLM, Farmington	1 - S. H. Oden	1 - Texaco, Inc.
2 - Utah O&GCC	1 - P. J. Konkell	1 - Chevron
1 - EPA, San Francisco	1 - Cheiftain	1 - PPCO, Houston
1 - N. Anstin	1 - Mobil Oil	1 - PPCO, Cortez, RC

14. I hereby certify that the foregoing is true and correct

Signed S. H. Oden S. H. Oden Title District Superintendent Date October 31, 1990

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See instruction on Reverse Side



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

JUL 05 1991

FORM APPROVED  
Budget Bureau No. 1004-1135  
Expires September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS DIVISION OF

Do not use this form for proposals to drill or to deepen or reentry to ~~ON OILS & MINING~~  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.  
14-20-603-353

6. If Indian, Allottee or Tribe Name

Navajo Tribal

7. If Unit or CA, Agreement Designation

Ratherford  
SW-I-4192

8. Well Name and No.

18W23

9. API Well No.

43-027-30244

10. Field and Pool, or Exploratory Area

Greater Aneth

11. County or Parish, State

San Juan, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other Water Injection

2. Name of Operator

PHILLIPS PETROLEUM COMPANY

3. Address and Telephone No.

5525 Hwy 64, NBU 3004, Farmington, NM 87401

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2385 FSL, 2040 FWL, Sec. 18, T41S, R24E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection

MIT Compliance

(Note: Report results of multiple completion on Well Completion or  
Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

During the MIT's being performed by Mr. George Robin with the EPA, the test on the subject well indicated that a surface casing leak may be present. No communication from the production casing to the surface casing was present. A braiden head type cement squeeze will be performed within the next 180 days to establish mechanical integrity.

Distribution:

BLM-Farmington

Utah O&G, CC

EPA- San Francisco

Navajo EPA, Window Rock

Chieftain

Mobil

Texaco

Robert G. Flesher

W.R. Heuman

V.S. Shaw-Houston

N.D. Anstine-Bartlesville

PPCo-Houston

14. I hereby certify that the foregoing is true and correct.

Signed

(This space for Federal or State office use)

Title Sr. Drlg & Prod. Engineer Date 7-1-91

Approved by

Conditions of approval, if any:

Title

Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well  
☐ Oil Well ☐ Gas Well ☒ Other Water Injector

2. Name of Operator  
Phillips Petroleum Company

3. Address and Telephone No.  
5525 Hwy 64 NBU 3004, Farmington, NM 87401 (505) 599-3412

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2385' FSL & 2040' FWL  
Sec. 18, T41S, R24E

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

5. Lease Designation and Serial No.  
14-20-603-353

6. If Indian, Allottee or Tribe Name  
Navajo Tribal

7. If Unit or CA, Agreement Designation  
Ratherford Unit  
SW-I-4192

8. Well Name and No.  
#18W23

9. API Well No.  
43-037-30244

10. Field and Pool, or Exploratory Area  
Greater Aneth

11. County or Parish, State  
San Juan, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other Clean-out & Stimulate	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

8-8-91 thru 8-14-91

MIRU DDU and equipment. COOH w/injection equipment. RU Schlumberger and ran water flow log. Log showed no water flow. RD Schlumberger. TIH w/retrieving head, released RBP. COOH. PU 5-1/2" R-3 pkr. TIH and set @ 5507'. RU Howco. Pmpd 2500 gals 20% HCl w/additives w/500 psi. Ave pressure 2150 psi @ 1 BPM. ISIP 2400 psi. Flowed back 187 bbls. PU 5-1/2" Otis Interlock pkr and TIH w/171 jts 2-3/8" Rice Duolined tbg. PT to 3000 psi. Set pkr @ 5536' and tested annulus to 1000 psi - okay. Pmpd 120 bbls water w/27 gals WellChem-840. ND BOP's and NU WH. Performed MIT. RD and returned well to injection.

NOTE: Notified EPA on 8-12-91

RECEIVED

OCT 15 1991

DIVISION OF  
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed T. P. Robinson Title Sr. Drlg. & Prod. Engr. Date 10-9-91  
(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

Page 1 of 10

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

ACCOUNT NUMBER: N0772

P J KONKEL  
PHILLIPS PETROLEUM COMPANY  
5525 HWY 64 NBU 3004  
FARMINGTON NM 87401

AUG 16 1993

REPORT PERIOD (MONTH/YEAR):

6 / 93

DIVISION OF  
OIL, GAS & MININGAMENDED REPORT ☐ (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
#21-23								
4303713754	06280	41S 24E 21	DSCR	POW	29	1374	883	58
#3-44								
4303715031	06280	41S 24E 3	DSCR	POW	30	111	94	2905
#3-14								
4303715124	06280	41S 24E 3	DSCR	POW	30	67	23	302
#9-12								
4303715126	06280	41S 24E 9	DSCR	POW	30	112	654	17363
#9-14								
4303715127	06280	41S 24E 9	DSCR	POW	30	201	315	423
#28-12								
4303715336	06280	41S 24E 28	PRDX	POW	29	112	47	2428
#29-12								
4303715337	06280	41S 24E 29	PRDX	POW	29	56	0	672
#29-32								
4303715339	06280	41S 24E 29	DSCR	POW	29	1402	287	2224
#29-34								
4303715340	06280	41S 24E 29	DSCR	POW	29	757	48	0
#30-32								
4303715342	06280	41S 24E 30	DSCR	POW	29	588	1049	3744
#3-12								
4303715620	06280	41S 24E 3	DSCR	POW	30	268	11	363
#9-34								
4303715711	06280	41S 24E 9	DSCR	POW	30	45	46	9800
#10-12								
4303715712	06280	41S 24E 10	DSCR	POW	30	45	23	1088
TOTALS						5138	3480	41370

COMMENTS: Effective July 1, 1993, Phillips Petroleum Company has sold its interest in the Ratherford Unit to Mobil Exploration and Producing U.S., Incorporated, P. O. Box 633, Midland, Texas 79702. Mobil assumed operations on July 1, 1993.

I hereby certify that this report is true and complete to the best of my knowledge. Date: 8/11/93

Name and Signature: PAT KONKEL

*Pat Konkell*

Telephone Number: 505 599-3452

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <small>(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)</small>		3. LEASE DESIGNATION & SERIAL NO.  6. IF INDIAN, ALLOTTEE OR TRIBE NAME NAVAJO TRIBAL	
1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		7. UNIT AGREEMENT NAME RATHERFORD UNIT	
2. NAME OF OPERATOR MOBIL OIL CORPORATION		8. FARM OR LEASE NAME	
3. ADDRESS OF OPERATOR P. O. BOX 633 MIDLAND, TX 79702		9. WELL NO.	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface  At proposed prod. zone		10. FIELD AND POOL, OR WILDCAT GREATER ANETH	
14. API NO.		15. ELEVATIONS (Show whether DF, RT, GR, etc.)	
12. COUNTY SAN JUAN		13. STATE UTAH	

SEP 13 1993

DIVISION OF OIL, GAS & MINING

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>CHANGE OF OPERATOR</u>	
(Other) _____		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
APPROX. DATE WORK WILL START _____		DATE OF COMPLETION _____	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

\* Must be accompanied by a cement verification report.

AS OF JULY1, 1993, MOBIL OIL CORPORATION IS THE OPERATOR OF THE RATHERFORD UNIT. ATTACHED ARE THE INDIVIDUAL WELLS.

18. I hereby certify that the foregoing is true and correct

SIGNED Shirley Todd TITLE ENV. & REG TECHNICIAN DATE 9-8-93

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

✓ 12W-44	43-037-16405	14-20-603-246A	SEC. 12, T41S, R23E	SE/SE 660 FSL; 660 FEL	PA'd
✓ 12W-44A	43-037-31543	14-20-603-246A	SEC. 12, T41S, R23E	SE/SE 807 FEL; 772 FSL	
✓ 13-11W	43-037-31152	14-20-603-247A	SEC. 13, T41S, R23E	NW/NW 500 FNL; 660 FWL	
✓ 13-12	43-037-31127	14-20-603-247A	SEC. 13, T41S, R23E	SW/NW 1705 FNL; 640 FWL	
✓ 13W-13	43-037-15851	14-20-603-247A	SEC. 13, T41S, R23E	NW/SW 1980 FSL; 4620 FEL	
✓ 13-14	43-037-31589	14-20-603-247A	SEC. 13, T41S, R23E	660 FSL; 660 FWL	
✓ 13-21	43-037-31128	14-20-603-247A	SEC. 13, T41S, R23E	NE/NW 660 FNL; 1920 FWL	
✓ 13W-22	43-037-15852	14-20-603-247A	SEC. 13, T41S, R23E	SE/NW 1988 FNL; 3300 FEL	
✓ 13-23	43-037-31129	14-20-603-247A	SEC. 13, T41S, R23E	NE/SW 1980 FSL; 1930 FWL	
✓ 13W-44	43-037-15853	14-20-603-247	SEC. 13, T41S, R23E	600 FSL; 3300 FEL	
✓ 13W-32	43-037-16406	14-20-603-247A	SEC. 13, T41S, R23E	1881 FNL; 1979 FEL	
✓ 13W-33	43-037-15855	14-20-603-247A	SEC. 13, T41S, R23E	NW/SE 1970 FSL; 1979 FEL	
✓ 13W-34	43-037-31130	14-20-603-247A	SEC. 13, T41S, R23E	SW/SE 660 FSL; 1980 FEL	
✓ 13-41	43-037-15856	14-20-603-247A	SEC. 13, T41S, R23E	NE/NE 660 FNL; 660 FEL	
✓ 13W-42	43-037-15857	14-20-603-247A	SEC. 13, T41S, R23E	SE/NE 2139; 585 FEL	
✓ 13-43	43-037-31131	14-20-603-247A	SEC. 13, T41S, R23E	NE/SE 1700 FS.; 960 FEL	
✓ 13W-44	43-037-16407	14-20-603-247A	SEC. 13, T41S, R23E	SE/SE 635 FSL; 659 FEL	
✓ 14-02	NA	14-20-603-4037	SEC. 11, T41S, R23E	SW/SW 660 FSL; 660 FEL	
✓ 14-32	43-037-15858	14-20-603-247A	SEC. 14, T41S, R23E	2130 FNL; 1830 FEL	
✓ 14-41	43-037-31623	14-20-603-247A	SEC. 14, T41S, R23E	NE/NE 521 FEL; 810 FNL	
✓ 14W-42	43-037-15860	14-20-603-247A	SEC. 14, T41S, R23E	SE/NE 1976 FNL; 653 FEL	
✓ 14W-43	43-037-16410	14-20-603-247A	SEC. 14, T41S, R23E	3300 FSL; 4770 FEL	
✓ 14-33	43-037-15859	14-20-603-247	SEC. 14, T41S, R23E	2130 FSL; 1830 FEL	
✓ 15-12	43-037-15715	14-20-603-355	SEC. 15, T41S, R24E	1820 FNL; 500 FWL	
✓ 15W-21	43-037-16411	14-20-603-355	SEC. 15, T41S, R24E	660 FNL; 1820 FWL	
✓ 15-22	43-037-30449	14-20-603-355	SEC. 15, T41S, R24E	SE/NW, 1980 FNL; 2050 FWL	
✓ 15-32	43-037-15717	14-20-603-355A	SEC. 15, T41S, R24E	1980 FNL; 1980 FEL	
✓ 15-33	43-037-15718	14-20-603-355	SEC. 15, T41S, R24E	NW/SE 1650 FSL; 1980 FEL	
✓ 15-41	43-037-15719	14-20-603-355	SEC. 15, T41S, R24E	660 FNL; 660' FEL	
✓ 15-42	43-037-30448	14-20-603-355	SEC. 15, T41S, R24E	SE/NE 2020 FNL; 820 FEL	
✓ 16W-12	43-037-15720	14-20-603-355	SEC. 16, T41S, R24E	SW/NW 1880 FNL; 660 FWL	
✓ 16-13	43-037-31168	14-20-603-355	SEC. 16, T41S, R24E	1980 FSL; 660 FWL	
✓ 16W-14	43-037-15721	14-20-603-355	SEC. 16, T41S, R24E	SW/SW 660 FSL; 660 FWL	
✓ 16W-21	43-037-16414	14-20-603-355	SEC. 16, T41S, R24E	NE/NW 660 FNL; 1880 FWL	
✓ 16W-23	43-037-15722	14-20-603-355	SEC. 16, T41S, R24E	NE/SW 1980 FSL; 1980 FWL	
✓ 16-32	43-037-15723	14-20-603-355	SEC. 16, T41S, R24E	1980 FNL; 1980' FEL	
✓ 16-34	43-037-15724	14-20-603-355	SEC. 16, T41S, R24E	660 FNL; 1980' FEL	
✓ 16-41	43-037-15725	14-20-603-355	SEC. 16, T41S, R24E	660 FNL; 660' FEL	
✓ 16W-43	43-037-16415	14-20-603-355	SEC. 16, T41S, R24E	NE/SE 2140 FSL; 820 FEL	
✓ 17-11	43-037-31169	14-20-603-353	SEC. 17, T41S, R24E	NW/NW 1075' FNL; 800' FWL	
✓ 17W-12	43-037-15726	14-20-603-353	SEC. 17, T41S, R24E	SW/NW 1980' FNL; 510' FWL	
✓ 17-13	43-037-31133	14-20-603-353	SEC. 17, T41S, R24E	NW/SW 2100' FSL; 660' FWL	
✓ 17W-14	43-037-15727	14-20-603-353	SEC. 17, T41S, R24E	SW/SW 660' FSL; 660' FWL	
✓ 17W-21	43-037-16416	14-20-603-353	SEC. 17, T41S, R24E	510' FNL; 1830' FWL	
✓ 17-22	43-037-31170	14-20-603-353	SEC. 17, T41S, R24E	1980' FNL; 1980' FWL	
✓ 17W-23	43-037-15728	14-20-603-353	SEC. 17, T41S, R24E	NE/SW 1980' FNL; 1880' FSL	
✓ 17-31	43-037-31178	14-20-603-353	SEC. 17, T41S, R24E	NW/NE 500' FNL; 1980' FEL	
✓ 17-32W	43-037-15729	14-20-603-353	SEC. 17, T41S, R24E	SW/NE 1830' FNL; 2030' FEL	
✓ 17-33	43-037-31134	14-20-603-353	SEC. 17, T41S, R24E	NW/SE 1980' FSL; 1845' FEL	
✓ 17-34W	43-037-15730	14-20-603-353	SEC. 17, T41S, R24E	SW/SE 560' FSL; 1880' FEL	
✓ 17W-41	43-037-15731	14-20-603-353	SEC. 17, T41S, R24E	610' FNL; 510' FEL	
✓ 17-42	43-037-31177	14-20-603-353	SEC. 17, T41S, R24E	SE/NE 1980; FNL, 660' FEL	
✓ 17-44	43-037-15732	14-20-603-353	SEC. 17, T41S, R24E	660 FSL; 660' FEL	
✓ 17W-43	43-037-16417	14-20-603-353	SEC. 17, T41S, R24E	NE/SE 1980' FSL; 660' FEL	
✓ 18-11	43-037-15733	14-20-603-353	SEC. 18, T41S, R24E	NW/NW 720' FNL; 730' FWL	
✓ 18-12W	43-037-31153	14-20-603-353	SEC. 18, T41S, R24E	SW/NW 1980' FNL; 560' FWL	
✓ 18W-21	43-037-16418	14-20-603-353	SEC. 18, T41S, R24E	NE/NW 660' FNL; 1882' FWL	
✓ 18-22	43-037-31236	14-20-603-353	SEC. 18, T41S, R24E	SW/NW 2200' FNL; 2210' FWL	
✓ 18W-23	43-037-30244	14-20-603-353	SEC. 18, T41S, R24E	NE/SW 2385' FSL; 2040' FWL	
✓ 18W-14	43-037-15735	14-20-603-353	SEC. 18, T41S, R24E	SW/SW 810' FSL; 600' FWL	
✓ 18-24	43-037-31079	14-20-603-353	SEC. 18, T41S, R24E	SE/SW 760' FSL; 1980' FWL	
✓ 18-31	43-037-31181	14-20-603-353	SEC. 18, T41S, R24E	NW/NE 795' FNL; 2090; FEL	
✓ 18W-32	43-037-15736	14-20-603-353	SEC. 18, T41S, R24E	SW/NE 2140' FNL; 1830' FEL	
✓ 18-33	43-037-31135	14-20-603-353	SEC. 18, T41S, R24E	NW/SE 1870' FSL; 1980' FEL	
✓ 18-34W	43-037-15737	14-20-603-353	SEC. 18, T41S, R24E	SW/SE 780' FSL; 1860 FEL	
✓ 18W-41	43-037-15738	14-20-603-353	SEC. 18, T41S, R24E	NE/NE 660' FNL; 660' FEL	
✓ 18-42	43-037-31182	14-20-603-353	SEC. 18, T41S, R24E	SE/NE 2120' FNL; 745' FEL	
✓ 18W-43	43-037-16419	14-20-603-353	SEC. 18, T41S, R24E	NE/SE 1980' FSL; 660' FEL	PA'd
✓ 18-44	43-037-31045	14-20-603-353	SEC. 18, T41S, R24E	SE/SE 660' FSL; 660' FEL	
✓ 19-11	43-037-31080	14-20-603-353	SEC. 19, T41S, R24E	NW/NW 660' FNL; 660' FWL	
✓ 19-12	43-037-15739	14-20-603-353	SEC. 19, T41S, R24E	600' FWL; 1980' FNL	
✓ 19-14	43-037-15740	14-20-603-353	SEC. 19, T41S, R24E	600' FSL; 660' FEL	

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

Page 1 of 1

## MONTHLY OIL AND GAS DISPOSITION REPORT

OPERATOR NAME AND ADDRESS:

L B SHEFFIELD

BRIAN BERRY

M E P N A MOBIL

POB 249031 1807A RENTWY P.O. DRAWER 6

DALLAS TX 75221-9031 CORTAZ, CO. 81321

UTAH ACCOUNT NUMBER: N7370

REPORT PERIOD (MONTH/YEAR): 7 / 93

AMENDED REPORT ☐ (Highlight Changes)X931006 updated.  
Jic

ENTITY NUMBER	PRODUCT	GRAVITY	BEGINNING INVENTORY	VOLUME PRODUCED	DISPOSITIONS				ENDING INVENTORY
		BTU			TRANSPORTED	USED ON SITE	FLARED/VENTED	OTHER	
05980	OIL			177609	177609	0			
	GAS			72101	66216	5885			
11174	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
TOTALS				249710	243825	5885			

COMMENTS:

PLEASE NOTE ADDRESS change. Mobil ~~ASU~~ PRODUCTION REPORTS  
will be compiled and sent from the Cortez, Co. office  
IN THE FUTURE.

I hereby certify that this report is true and complete to the best of my knowledge.

Name and Signature:

Lewell B Sheffield

Date:

9/5/93

Telephone Number:

303 865 2212  
244 658 2528

Sept 29, 1993

TO: Lisha Cordova - Utah Mining  
Oil & Gas

FROM: Janice Casley  
BLM Farmington, NM  
505 599-6355

Here is copy of Rutherford Unit  
Successor Operator.

4 pages including this one.

RECEIVED  
BLM

079 FRANKLIN, NM

2011. 10. 15

cc: Bureau of Land Management, Farmington District Office w/enc.  
TNN, Director, Minerals Department w/enc.



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF INDIAN AFFAIRS

RECEIVED  
BLM

DESIGNATION OF OPERATOR

Phillips Petroleum Company is, on the records of the Bureau of Indian Affairs, operator of the Ratherford Unit,

JUN 27 1993

070 FARMINGTON, NM

AREA OFFICE: Window Rock, Arizona  
LEASE NO: Attached hereto as Exhibit "A"

and, pursuant to the terms of the Ratherford Unit Agreement, is resigning as Unit Operator effective July 1, 1993, and hereby designates

NAME: Mobil Exploration and Producing North America Inc., duly elected pursuant to the terms of the Ratherford Unit Agreement,

ADDRESS: P. O. Box 633, Midland, Texas 79702  
Attn: G. D. Cox

as Operator and local agent, with full authority to act on behalf of the Ratherford Unit lessees in complying with the terms of all leases and regulations applicable thereto and on whom the authorized officer may serve written or oral instructions in securing compliance with the Operating Regulations (43 CFR 3160 and 25 CFR 211 and 212) with respect to (described acreage to which this designation is applicable):

Attached hereto as Exhibit "A"

Bond coverage under 25 CFR 211, 212 or 225 for lease activities conducted by the above named designated operator is under Bond Number 05202782 (attach copy). Evidence of bonding is required prior to the commencement of operations.

It is understood that this designation of operator does not relieve any lessee of responsibility for compliance with the terms of the leases and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the leases.

In case of default on the part of the designated operator, the lessees will make full and prompt compliance with all regulations, lease terms, stipulations, or orders of the Secretary of the Interior or his representative.

Attached is the appropriate documentation relevant to this document.

The designated operator agrees to promptly notify the authorized officer of any change in the operatorship of said Ratherford Unit.

Phillips Petroleum Company

June 17, 1993

By: M. B. Smith  
Attorney-in-Fact

Mobil Exploration and Producing  
North America Inc.

June 11, 1993

By: B. D. Martiny  
Attorney-in-Fact B.D. MARTINY

[Signature] ACTING AREA DIRECTOR  
APPROVED BY TITLE DATE  
7/9/93

APPROVED PURSUANT, TO SECRETARIAL REDELEGATION ORDER 209 DM 8 AND 230 DM 3.

This form does not constitute an information collection as defined by 44 U.S.C. 3502 and therefore does not require OMB approval.

## EXHIBIT "A"

ATTACHED TO AND MADE A PART OF DESIGNATION OF SUCCESSOR OPERATOR, RATHERFORD UNIT

## EXHIBIT "C"

Revised as of September 29, 1992  
SCHEDULE OF TRACT PERCENTAGE PARTICIPATION

<u>Tract Number</u>	<u>Description of Land</u>	<u>Serial Number and Effective Date of Lease</u>	<u>Tract Percentage Participation</u>
1	S/2 Sec. 1, E/2 SE/4 Sec. 2, E/4 Sec. 11, and all of Sec. 12, T-41-S, R-23-E, S.L.M., San Juan County, Utah	14-20-603-246-A Oct. 5, 1953	11.0652565
2	SE/4 and W/2 SW/4 Sec. 5, the irregular SW/4 Sec. 6, and all of Sec. 7 and 8, T-41-S, R-24-E, San Juan County, Utah	14-20-603-368 Oct. 26, 1953	14.4159942
3	SW/4 of Sec. 4, T-41-S, R-24-E, San Juan County, Utah	14-20-603-5446 Sept. 1, 1959	.5763826
4	SE/4 Sec. 4, and NE/4 Sec. 9, T-41-S, R-24-E, San Juan County, Utah	14-20-603-4035 March 3, 1958	1.2587779
5	SW/4 of Sec. 3, T-41-S, R-24-E, S.L.M., San Juan County, Utah	14-20-603-5445 Sept. 3, 1959	.4667669
6	NW/4 of Sec. 9, T-41-S, R-24-E, S.L.M., San Juan County, Utah	14-20-603-5045 Feb. 4, 1959	1.0187043
7	NW/4, W/2 NE/4, and SW/4 Sec. 10, SE/4 Sec. 9, T-41-S, R-24-E, San Juan County, Utah	14-20-603-4043 Feb. 18, 1958	3.5097575
8	SW/4 Sec. 9, T-41-S, R-24-E, S.L.M., San Juan County, Utah	14-20-603-5046 Feb. 4, 1959	1.1141679
9	SE/4 Sec. 10 and S/2 SW/4 Sec. 11 T-41-S, R-24-E, San Juan County, Utah	14-20-603-4037 Feb. 14, 1958	2.6186804
10	All of Sec. 13, E/2 Sec. 14, and E/2 SE/4 and N/2 Sec. 24, T-41-S, R-23-E, S.L.M., San Juan County, Utah	14-20-603-247-A Oct. 5, 1953	10.3108861
11	Sections 17, 18, 19 and 20, T-41-S, R-24-E, San Juan County Utah	14-20-603-353 Oct. 27, 1953	27.3389265
12	Sections 15, 16, 21, and NW/4, and W/2 SW/4 Sec. 22, T-41-S, R-24-E, San Juan County, Utah	14-20-603-355 Oct. 27, 1953	14.2819339
13	W/2 Section 14, T-41-S, R-24-E, San Juan County, Utah	14-20-603-370 Oct. 26, 1953	1.8500847
14	N/2 and SE/4, and E/2 SW/4 Sec. 29, NE/4 and E/2 SE/4 and E/2 W/2 irregular Sec. 30, and E/2 NE/4 Sec. 32, T-41-S, R-24-E, San Juan County, Utah	14-20-603-407 Dec. 10, 1953	6.9924969
15	NW/4 Sec. 28, T-41-S, R24-E San Juan County, Utah	14-20-603-409 Dec. 10, 1953	.9416393
16	SE/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6504 July 11, 1961	.5750254
17	NE/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6505 July 11, 1961	.5449292
18	NW/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6506 July 11, 1961	.5482788
19	NE/4 Sec. 4, T-41-S, R24-E San Juan County, Utah	14-20-0603-7171 June 11, 1962	.4720628
20	E/2 NW/4 Sec. 4, T-41-S, R-24-E San Juan County, Utah	14-20-0603-7172 June 11, 1962	.0992482

100% Indian Lands

TOTAL 12,909.74

100.0000000

## PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☐ Well File \_\_\_\_\_☐ Suspense  
(Return Date) \_\_\_\_\_  
(To - Initials) \_\_\_\_\_☒ Other  
OPERATOR CHANGE(Location) Sec \_\_\_\_\_ Twp \_\_\_\_\_ Rng \_\_\_\_\_  
(API No.) \_\_\_\_\_\_\_\_\_\_  
\_\_\_\_\_1. Date of Phone Call: 10-6-93 : Time: 9:302. DOGM Employee (name) L. CORDOVA (Initiated Call ☒  
Talked to:Name GLEN COX (Initiated Call ☐ - Phone No. (915) 688-2114of (Company/Organization) MOBIL3. Topic of Conversation: OPERATOR CHANGE FROM PHILLIPS TO MOBIL "RATHERFORD UNIT".  
(NEED TO CONFIRM HOW OPERATOR WANTS THE WELLS SET UP - MEPNA AS PER BIA APPROVAL  
OR MOBIL OIL CORPORATION AS PER SUNDRY DATED 9-8-93?)

4. Highlights of Conversation: \_\_\_\_\_

MR. COX CONFIRMED THAT THE WELLS SHOULD BE SET UNDER ACCOUNT N7370/MEPNA AS  
PER BIA APPROVAL, ALSO CONFIRMED THAT PRODUCTION & DISPOSITION REPORTS WILL NOW  
BE HANDLED OUT OF THEIR CORTEZ OFFICE RATHER THAN DALLAS.MEPNA-PO DRAWER GCORTEZ, CO 81321(303)565-2212\*ADDRESS CHANGE AFFECTS ALL WELLS CURRENTLY OPERATED BY MEPNA, CURRENTLY  
REPORTED OUT OF DALLAS (MCELMO CREEK).

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

OCT 25 1993

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: \_\_\_\_\_  
Field or Unit name: RATHERFORD UNIT API no. \_\_\_\_\_  
Well location: QQ \_\_\_\_\_ section \_\_\_\_\_ township \_\_\_\_\_ range \_\_\_\_\_ county \_\_\_\_\_  
Effective Date of Transfer: July 1, 1993

CURRENT OPERATOR

Transfer approved by:

Name Ed Hasely Company Phillips Petroleum Company  
Signature Ed Hasely Address 5525 HWY. 64  
Title Environmental Engineer Farmington, NM 87401  
Date October 22, 1993 Phone ( 505 ) 599-3460

Comments:

NEW OPERATOR

Transfer approved by:

Name Shirley Todd Company Mobil Exploration & Producing North America  
Signature Shirley Todd Address P O Box 633  
Title Env. & Reg. Technician Midland, TX 79702  
Date October 7, 1993 Phone ( 915 ) 688-2585

Comments:

(State use only)

Transfer approved by [Signature] Title Area Manager  
Approval Date 10-27-93

Lisha Cordova (801) 538-5340

BEFORE THE OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF UTAH

APPLICATION OF PHILLIPS PETROLEUM	)	
COMPANY FOR THE APPROVAL OF THE	)	
UNIT OPERATIONS AND PRESSURE MAIN-	)	CAUSE NO. 63
TENANCE PROGRAM FOR THE RATHERFORD	)	
UNIT IN THE GREATER ANETH AREA,	)	
SAN JUAN COUNTY, UTAH	)	

ORDER

This Cause came on for hearing before the Oil and Gas Conservation Commission of the State of Utah at 10 o'clock a. m. on Wednesday, September 13, 1961, in the Crystal Room, Hotel Newhouse, Fourth South at Main Street, Salt Lake City, Utah, pursuant to notice duly and regularly given. The entire Commission, except Walter G. Mann, was present, Edward W. Clyde presiding. Appearances were made as follows: Cecil C. Hamilton, attorney, on behalf of Phillips Petroleum Company; Clair M. Senior, attorney, on behalf of Texaco, Inc.; Gordon Mayberry, attorney, on behalf of Continental Oil Company; R. R. Robison on behalf of Shell Oil Company. Others present included Carl Trawick, on behalf of United States Geological Survey; and J. R. White, on behalf of Texaco, Inc.

Evidence in support of the application was introduced by Phillips Petroleum Company, the applicant and Unit Operator of the Ratherford Unit, which embraces as the unit area the following described land in San Juan County, State of Utah, to wit:

TOWNSHIP 41 SOUTH, RANGE 23 EAST, SLN

Section 1:	All	Sections 12 and 13:	All
Section 2:	E/2	Section 14:	E/2
Section 11:	E/2	Section 24:	All

TOWNSHIP 41 SOUTH, RANGE 24 EAST, SLN

Section 3:	SW/4	Sections 15	
Section 4:	E/2	through 21:	All
Sections 5 through 9:	All	Section 22:	NW/4 and
Section 10:	E/2 and NE/4		E/2 of the
	and E/2 of NE/4		SW/4
Section 11:	E/2 of SW/4	Section 23:	NE/4 and
			E/2 of NE/4
Section 14:	E/2		and W/2 of SW/4
		Section 29 and 30:	All
		Section 31:	E/2
		Section 32:	E/2

R. R. Robison on behalf of Shell Oil Company stated that (as contemplated by paragraph No. 5 of the Commission's order of February 24, 1959, in Cause No. 17 authorizing the drilling of certain test wells) Shell would submit to the Commission, as arbiter, the question as between Shell and Superior Oil Company

of the monetary value, if any, to be attributed to three test wells drilled within the Ratherford Unit area pursuant to said order of February 24, 1959.

No objection to the granting of the application was filed or expressed. The Shell Oil Company, Texaco, Inc. and Continental Oil Company expressed their support of the application of Phillips Petroleum Company.

#### FINDINGS OF FACT

The Commission finds that:

1. The unitized operation of the Ratherford Unit Area will enable pressure maintenance operations to be initiated and permit such Area to be operated in a manner which will prevent waste, protect correlative rights and result in greater ultimate recovery of oil and gas.
2. The Ratherford Unit Agreement has been approved by the various signatory parties as fair, reasonable and acceptable.
3. The water injection pressure maintenance program proposed by the applicant appears to be proper and designed to result in the greatest economic recovery of oil and gas to the end that all concerned, including the general public, may realize and enjoy the greatest good from the oil and gas resources of the unitized lands.

#### ORDER

THEREFORE, IT IS ORDERED BY THE COMMISSION, and subject to its continuing jurisdiction, that:

1. Unit operation of the Ratherford Unit Area under the Ratherford Unit Agreement is approved.
2. The plan and program of water injection pressure maintenance operations proposed by applicant in its application filed herein should be and the same is hereby approved and the unit operator is authorized to proceed with and under such plan and program as soon as the Ratherford Unit Agreement becomes effective and operative.
3. If, at any time or from time to time, it appears necessary or desirable to the unit operator to alter or modify the hereby approved plan of pressure maintenance, any such alteration or modification shall be submitted for

and shall be subject to approval by the Commission or its delegated representative, which approval may be given without notice or hearing, unless otherwise ordered or directed by the Commission.

Dated this 13th day of September, 1961.


THE OIL AND GAS CONSERVATION  
COMMISSION OF THE STATE OF UTAH

  
Edward W. Clyde, Commissioner presiding

  
C. R. Henderson, Chairman

  
M. V. Hatch, Commissioner

  
C. S. Thomson, Commissioner

  
Walter G. Mann, Commissioner

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing:

1	VEC/47-93
2	DTG/58-93
3	VLC
4	RJA
5	DEE
6	RL

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

☒ Change of Operator (well sold)  
☐ Designation of Operator

☐ Designation of Agent  
☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 7-1-93)

TO (new operator) M E P N A  
 (address) PO DRAWER G  
CORTEZ, CO 81321  
GLEN COX (915)688-2114  
 phone (303)565-2212  
 account no. N7370

FROM (former operator) PHILLIPS PETROLEUM COMPANY  
 (address) 5525 HWY 64 NBU 3004  
FARMINGTON, NM 87401  
PAT KONKEL  
 phone (505)599-3452  
 account no. N0772(A)

Well(s) (attach additional page if needed):

**\*RATHERFORD UNIT (NAVAJO)**

Name: <b>**SEE ATTACHED**</b>	API: <u>43037.30244</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- Sec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Reg. 8-20-93) (6/93 Prod. Rpt. 8-16-93)
- Sec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Reg. 8-31-93) (Prod. 9-14-93)
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) \_\_\_\_\_ If yes, show company file number: \_\_\_\_\_
- Sec 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- Sec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (O&G wells 10-6-93) (Wiw's 10-26-93)
- Sec 6. Cardex file has been updated for each well listed above. (O&G wells 10-6-93) (Wiw's 10-26-93)
- Sec 7. Well file labels have been updated for each well listed above. (O&G wells 10-6-93) (Wiw's 10-26-93)
- Sec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (10-6-93)
- Sec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.



## ENTITY REVIEW

- Lee 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

## BOND VERIFICATION (Fee wells only)

- Lee 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.  
N/A
2. A copy of this form has been placed in the new and former operators' bond files.
3. The former operator has requested a release of liability from their bond (yes/no)   . Today's date                      19  . If yes, division response was made by letter dated                      19  .

## LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated                      19  , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.  
DT's  
11-10-93
- N/A 2. Copies of documents have been sent to State Lands for changes involving State leases.

## FILMING

- ✓ 1. All attachments to this form have been microfilmed. Date: 11-17 1993.

## FILED

- Lee 1. Copies of all attachments to this form have been filed in each well file.
- Lee 2. The original of this form and the original attachments have been filed in the Operator Change file.

## COMMENTS

931006 BIA/Btm Approved 7-9-93.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APR 1 1991

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

MOBIL EXPLORATION & PRODUCING US, AS AGENT FOR MEPNA

3. Address and Telephone No.

P. O. BOX 633, MIDLAND, TX 79702

(915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2385' FSL, 2040' FWL; SEC. 18, T41S, R24E

5. Lease Designation and Serial No.

14-20-603-353

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

RATHERFORD UNIT

8. Well Name and No.

RATHERFORD UNIT 18-W-23

9. API Well No.

43-037-30244

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN,

UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other VACIDIZE  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

✓ 03-14-94 MIRU PRESS TEST COIL TBG. & BOP TO 5000 PSI, TAG FILL AT 5673. PUMP 4,000 GALS 15% HCL ACROSS PERF INTERVALS 5594-5608. DISP W/15 BBLs FW. FLOWBACK LOAD TO TANK. RDMO. RETURN WELL TO INJECTION.

14. I hereby certify that the foregoing is true and correct

Signed

*D. Davis for Shirley Todd*

Title

ENV. & REG. TECHNICIAN

Date

04/01/94

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

*San Cristobal*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APR 11 1994

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

MOBIL EXPLORATION & PRODUCING US, AS AGENT FOR MEPNA

3. Address and Telephone No.

P. O. BOX 633, MIDLAND, TX 79702

(915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2385' FSL, 2040' FWL; SEC. 18, T41S, R24E

5. Lease Designation and Serial No.

14-20-603-353

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

RATHERFORD UNIT

8. Well Name and No.

RATHERFORD UNIT 18-W-23

9. API Well No.

43-037-30244

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN,

UT

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TYPE OF ACTION

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03-22-94 MIRU BLOW WELL DOWN. NU BOP; POOH W/171 JTS 2-3/8 TBG. RIH W/ BIT & SCRAPER.

03-23-94 TAG FILL @ 5681'.

03-24-94 SET PKR @ 5498'. ND BOP. PRESS TEST CSG TO 1000 PSI/HELD/OK/30 MIN. RETURN WELL TO INJECTION.

14. I hereby certify that the foregoing is true and correct

Signed

*D. Irvine for Shirley Todd*

Title

ENV. & REG. TECHNICIAN

Date

04/04/94

(This space for Federal or State office use)

Approved by

Title

Conditions of approval, if any:

*for credit*

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**PHONE CONVERSATION DOCUMENTATION FORM**

Route original/copy to:

☐ **Well File** \_\_\_\_\_  
 (Location) Sec\_\_\_\_Twp\_\_\_\_Rng\_\_\_\_  
 (API No.) \_\_\_\_\_

☐ **Suspense**  
 (Return Date) \_\_\_\_\_  
 (To - Initials) \_\_\_\_\_

☒ **Other**  
**OPER NM CHG** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

1. Date of Phone Call: 8-3-95 Time: \_\_\_\_\_

2. DOGM Employee (name) L. CORDOVA (Initiated Call ☐)  
 Talked to:

Name R. J. FIRTH (Initiated Call ☒) - Phone No. (\_\_\_\_)  
 of (Company/Organization) \_\_\_\_\_

3. Topic of Conversation: M E P N A / N7370

4. Highlights of Conversation: \_\_\_\_\_

OPERATOR NAME IS BEING CHANGED FROM M E P N A (MOBIL EXPLORATION AND PRODUCING  
NORTH AMERICA INC) TO MOBIL EXPLOR & PROD. THE NAME CHANGE IS BEING DONE AT  
THIS TIME TO ALLEVIATE CONFUSION, BOTH IN HOUSE AND AMONGST THE GENERAL PUBLIC.

\*SUPERIOR OIL COMPANY MERGED INTO M E P N A 4-24-86 (SEE ATTACHED).

# Mobil Oil Corporation

P.O. BOX 5444  
DENVER, COLORADO 80217-5444

May 14, 1986

Utah Board of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Attn: R. J. Firth  
Associate Director

RECEIVED  
MAY 16 1986

DIVISION OF  
OIL, GAS & MINING

## SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:

On September 20, 1984, The Superior Oil Company (Superior) became a wholly owned subsidiary of Mobil Corporation. Since January 1, 1985, Mobil Oil Corporation (MOC), another wholly owned subsidiary of Mobil Corporation, has acted as agent for Superior and has operated the Superior-owned properties.

On April 24, 1986, Superior was merged with Mobil Exploration and Producing North America Inc. (MEPNA), which is also a wholly owned subsidiary of Mobil Corporation. MEPNA is the surviving company of the merger.

This letter is to advise you that all properties held in the name of Superior will now be held in the name of MEPNA; and that these properties will continue to be operated by MOC as agent for MEPNA.

Attached is a listing of all wells and a separate listing of injection-disposal wells, Designation of Agent and an organization chart illustrating the relationships of the various companies. If you have any questions or require additional documentation of this merger, please feel free to contact me at the above address or (303) 298-2577.

Very truly yours,



CNE/rd  
CNE8661

R. D. Baker  
Environmental Regulatory Manager

STATE OF UTAH  
INVENTORY OF INJECTION WELLS

OPERATOR	API NO.	WELL	TNS	RGE	SE	WELLTYPE	INDIAN COUNT
*****	*****	*****	***	***	**	*****	*****
✓MEPNA (MOBIL	43-037-15722	16W23	41S	24E	16	INJW	Y
✓MEPNA (MOBIL	43-037-16414	16W21	41S	24E	16	INJW	Y
✓MEPNA (MOBIL	43-037-16416	17W21	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15726	17W12	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15731	17W41	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-16417	17W43	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15728	17W23	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15730	17W34	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15729	17W32	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15727	17W14	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-31153	18W12	41S	24E	18	INJW	Y
✓MEPNA (MOBIL	43-037-15737	18W34	41S	24E	18	INJW	Y
✓MEPNA (MOBIL	43-037-15736	18W32	41S	24E	18	INJW	Y
✓MEPNA (MOBIL	43-037-30244	18W23	41S	24E	18	INJW	Y
✓MEPNA (MOBIL	43-037-15735	18W14	41S	24E	18	INJW	Y
✓MEPNA (MOBIL	43-037-16418	18W21	41S	24E	18	INJW	Y
✓MEPNA (MOBIL	43-037-15738	18W41	41S	24E	18	INJW	Y
✓MEPNA (MOBIL	43-037-15741	19W21	41S	24E	19	INJW	Y
✓MEPNA (MOBIL	43-037-15742	19W23	41S	24E	19	INJW	Y
✓MEPNA (MOBIL	43-037-15745	19W41	41S	24E	19	INJW	Y
✓MEPNA (MOBIL	43-037-16420	19W43	41S	24E	19	INJW	Y
✓MEPNA (MOBIL	43-037-15748	20W23	41S	24E	20	INJW	Y
✓MEPNA (MOBIL	43-037-15751	20W41	41S	24E	20	INJW	Y
✓MEPNA (MOBIL	43-037-16423	20W21	41S	24E	20	INJW	Y
✓MEPNA (MOBIL	43-037-16424	20W43	41S	24E	20	INJW	Y
✓MEPNA (MOBIL	43-037-16427	21W43	41S	24E	21	INJW	Y
✓MEPNA (MOBIL	43-037-16425	21W21	41S	24E	21	INJW	Y
✓MEPNA (MOBIL	43-037-16431	28W21	41S	24E	28	INJI	Y
✓MEPNA (MOBIL	43-037-16433	29W41	41S	24E	29	INJW	Y
✓MEPNA (MOBIL	43-037-16432	29W21	41S	24E	29	INJW	Y
✓MEPNA (MOBIL	43-037-15338	29W23	41S	24E	29	INJI	Y
✓MEPNA (MOBIL	43-037-16434	29W43	41S	24E	29	INJW	Y
✓MEPNA (MOBIL	43-037-15343	30-41	41S	24E	30	INJW	Y
✓MEPNA (MOBIL	43-037-16435	30W21	41S	24E	30	INJI	--

Division of Oil, Gas and Mining  
OPERATOR CHANGE WORKSHEET

Attach all documentation received by the division regarding this change.  
Initial each listed item when completed. Write N/A if item is not applicable.

- ☐ Change of Operator (well sold) ☐ Designation of Agent  
☐ Designation of Operator ☒ Operator Name Change Only

Routing	
1-LEC	7-PL
2-LWP	8-SJ
3-DE	9-FILE
4-VLC	
5-RJF	
6-LWP	

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 8-2-95)

TO (new operator) MOBIL EXPLOR & PROD  
(address) C/O MOBIL OIL CORP  
PO DRAWER G  
CORTEZ CO 81321  
phone (303) 564-5212  
account no. N7370

FROM (former operator) M E P N A  
(address) C/O MOBIL OIL CORP  
PO DRAWER G  
CORTEZ CO 81321  
phone (303) 564-5212  
account no. N7370

Well(s) (attach additional page if needed):

Name: <b>** SEE ATTACHED **</b>	API: <u>037-30244</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- N/A 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form).
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) \_\_\_\_ If yes, show company file number: \_\_\_\_\_.
- N/A 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- Lec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (8-3-95)
- LWP 6. Cardex file has been updated for each well listed above. 8-21-95
- LWP 7. Well file labels have been updated for each well listed above. 9-28-95
- Lec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (8-3-95)
- Lec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

### ENTITY REVIEW

- Lee* 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A* 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

### BOND VERIFICATION (Fee wells only) *\* No Fee Lease Wells at this time!*

- N/A* *Lee* 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- \_\_\_ 2. A copy of this form has been placed in the new and former operators' bond files.
- \_\_\_ 3. The former operator has requested a release of liability from their bond (yes/no) \_\_\_. Today's date \_\_\_\_\_ 19\_\_\_. If yes, division response was made by letter dated \_\_\_\_\_ 19\_\_.

### LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A* *OTS* *8/5/95* 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated \_\_\_\_\_ 19\_\_, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A* 2. Copies of documents have been sent to State Lands for changes involving **State leases**.

### FILMING

- ✓* 1. All attachments to this form have been microfilmed. Date: October 4 1995.

### FILING

- \_\_\_ 1. Copies of all attachments to this form have been filed in each well file.
- \_\_\_ 2. The original of this form and the original attachments have been filed in the Operator Change file.

### COMMENTS

*950803 UIC F5/Not necessary!*



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well  
☒ Oil Well ☐ Gas Well ☒ Other Wlw

2. Name of Operator **MOBIL PRODUCING TX & NM INC.\***  
**\*MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM**

3. Address and Telephone No.  
**P.O. Box 633, Midland TX 79702 (915) 688-2585**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**SEC. 18, T41S, R24E**  
**NE/SW 2385' FSL & 2040' FWL**

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

**14-20-603-353**

6. If Indian, Allottee or Tribe Name

**NAVAJO TRIBAL**

7. If Unit or CA, Agreement Designation

**RATHERFORD UNIT**

8. Well Name and No.

**RATHERFORD**

**18-23**

9. API Well No.

**43-037-30244**

10. Field and Pool, or exploratory Area

**GREATER ANETH**

11. County or Parish, State

**SAN JUAN**

**UT**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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- ☒ Notice of Intent
- ☐ Subsequent Report
- ☐ Final Abandonment Notice

TYPE OF ACTION

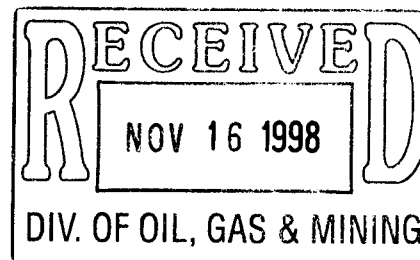
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- ☐ Casing Repair
- ☐ Altering Casing
- ☒ Other TA/MIT

- ☐ Change of Plans
- ☐ New Construction
- ☐ Non-Routine Fracturing
- ☐ Water Shut-Off
- ☐ Conversion to Injection
- ☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

SEE ATTACHED TA & MIT PROCEDURE.



14. I hereby certify that the foregoing is true and correct

Signed

*Shirley Houchins*

Title **SHIRLEY HOUCHINS/ENV & REG TECH**

Date **11-12-98**

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\* See Instruction on Reverse Side

# MOBIL E&P U.S.

## Ratherford Unit 18-23 TA and MIT Procedure

4 November 1998

Objective and Background: This well is in direct communication with injector 18-12, a recently completed horizontal, and is pressuring up. A decision to TA this well was made based on high injection pressure.

PRIOR TO RIG UP:

INJECTION WELL 18-12 WILL BE SHUT IN FOR 1 WEEK. CONTACT JAMES MADISON (970.564.1351) TO ENSURE WELL 18-12 IS SHUT IN.

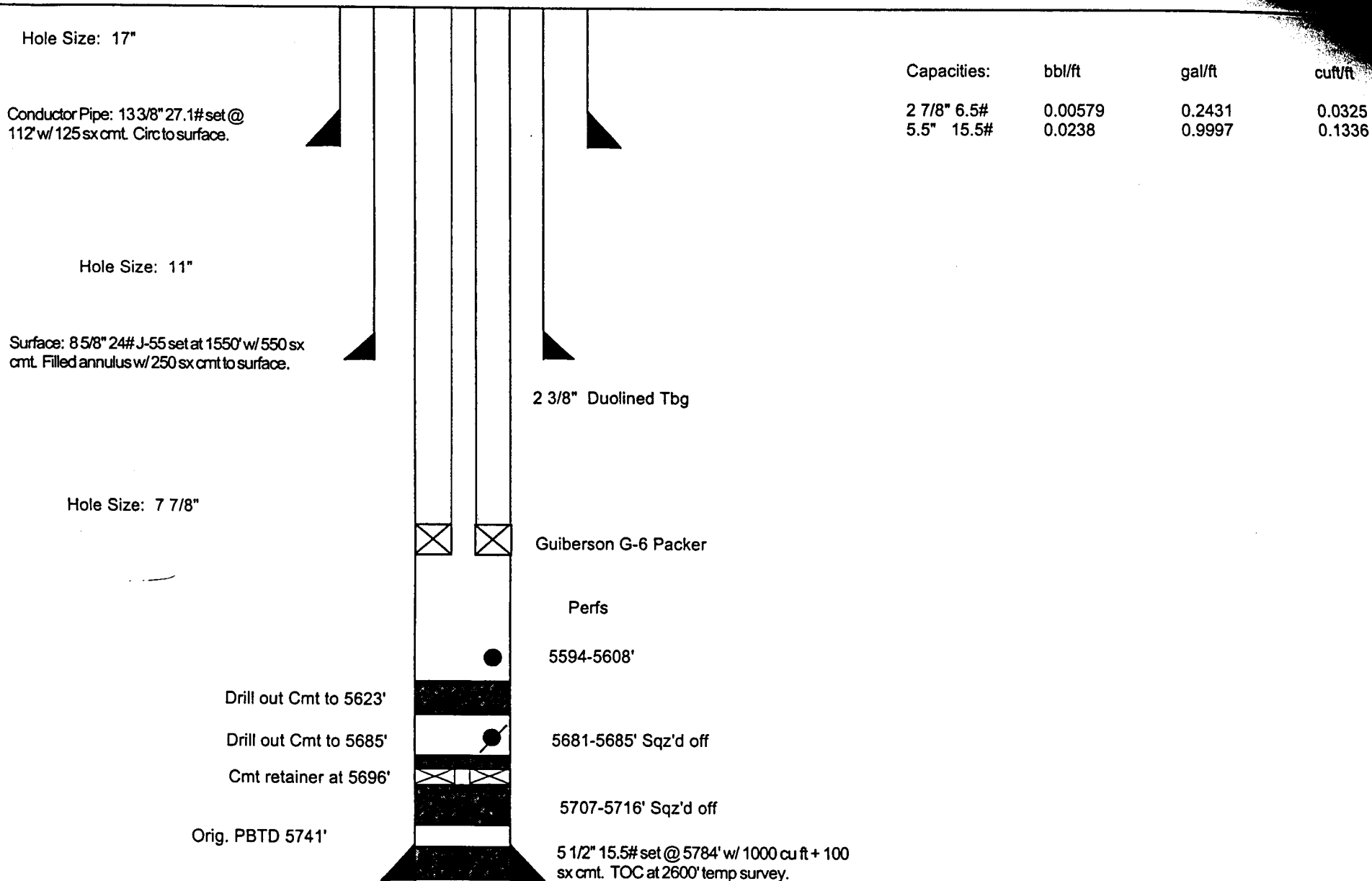
1. MIRU PU. KILL WELL. ND WH. NU BOP. FUNCTION/PRESSURE TEST BOP.
2. RELEASE GUIBERSON G-6 PACKER (J-LATCH, RIGHT HAND RELEASE). POOH W/ 2 2/8" DUOLINED TBG AND PACKER WHILE KEEPING HOLE FULL W/KWM. LD PACKER.
3. RIH W/SL AND GAUGE RING. IF GAUGE RING WILL NOT PASS, MAKE SEPARATE RUN WITH BIT AND SCRAPER. CIRC HOLE CLEAN. POOH.
4. RIH W/CIBP AND SET @ 5550'. CIRC WITH PACKER FLUID. POOH.
5. RU WL. MIX 1 SX CMT & LOAD DUMP BAILER. RIH WITH DUMP BAILER ON WL AND SPOT CMT PLUG ON CIBP. POOH & RD WL. WOC.
6. TEST TO 1000# FOR 30 MIN. IF HOLDS, LEAVE 1 JT @ SURF, ND BOP, NU WH. IF LEAKS, DISCUSS NEXT STEPS W/ DAVID NEWMAN (970.564.5207), ERNIE THOMAS (970.564.1351) & EPA.

D.C. NEWMAN

2385' FSL  
 2040' FWL  
 SEC 18-T41S-R24E  
 API 43-037-30244  
 PRISM 0043066  
 San Juan Co., Utah

**Ratherford Unit**  
**18-23**  
**Current Wellbore**

KB: 4808' GL: 4795'



TD 5785'

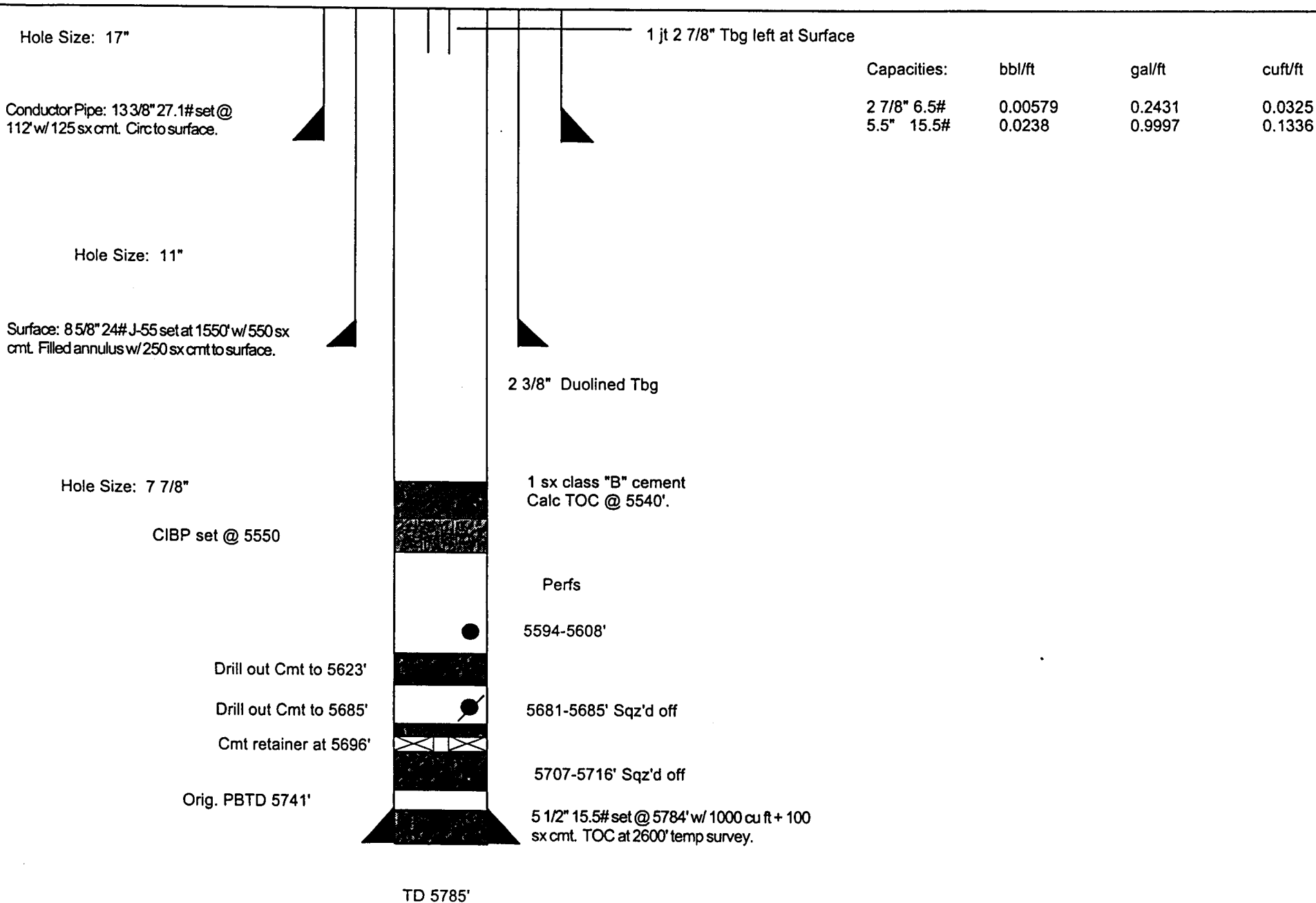
2385' FSL  
 2040' FWL  
 SEC 18-T41S-R24E  
 API 43-037-30244  
 PRISM 0043066  
 San Juan Co., Utah

Ratherford Unit  
 18-23  
 Current Wellbore

DCN: N

KB: 4808'

GL: 4795'



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT - " for such proposals

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☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

MOBIL PRODUCING TX & NM INC.\*  
\*MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM

3. Address and Telephone No.

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SEC. 18, T41S, R24E  
(NE/SW) 2385' FSL & 2040' FWL

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6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

RATHERFORD UNIT

8. Well Name and No.

RATHERFORD 18-23

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11. County or Parish, State

SAN JUAN UT

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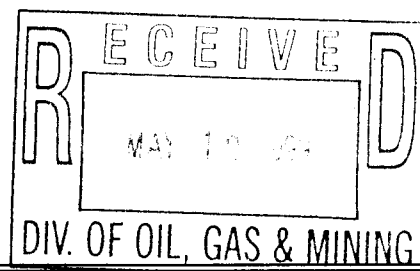
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- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other CANCEL INTENT
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PLEASE CANCEL THE INTENT DATED NOVEMBER 11, 1998. MOBIL HAS DECIDED NOT TO TA THIS WELL,  
BUT LEAVE IT INJECTING AT A LOW RATE.



14. I hereby certify that the foregoing is true and correct

Signed

*Shirley Houchins*

Title SHIRLEY HOUCHINS/ENV & REG TECH

Date 5-05-99

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Farmington Field Office  
1235 La Plata Highway  
Farmington, New Mexico 87401

IN REPLY REFER TO:

APR 13 1999

14-20-603-353 (WC)  
3162.3-2 (7100)

Ms Shirley Houchins  
Mobil Oil Corp.  
PO Box 633  
Midland, TX 79702

Dear Ms Houchins:

Reference is made to your well No. 18-23 Ratherford Creek Unit located 2385' FSL & 2040' FWL sec. 18, T. 41 S., R. 24 E., San Juan County, Utah, Lease 14-20-603-353. Also referenced is your Sundry Notice approved on November 11, 1998, which requested approval to temporarily abandon the well. If the work has been completed, you are required to submit a subsequent report. If the work over has not been completed, you are required to complete the work and submit a subsequent report by June 15, 1999.

Failure to comply within the time above may result in an assessment in accordance with 43 CFR 3163.1.

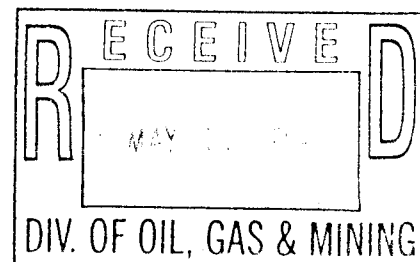
Under provisions of 43 CFR 3165.3, you may request an Administrative Review of the orders described above. Such request, including all supporting documents, must be filed in writing within 20 business days of receipt of this notice and must be filed with the State Director, Bureau of Land Management, P. O. Box 27115, Santa Fe, New Mexico 87502-0115. Such requests shall not result in a suspension of the order(s) unless the reviewing official so determines. Procedures governing appeals from instructions, orders or decisions are contained in 43 CFR 3165.4 and 43 CFR 4.400 et seq.

If you have any questions please contact Stephen Mason with this office at (505) 599-6364.

Sincerely,

Duane Spencer  
Team Leader; Petroleum Management Team

cc:  
BIA, Window Rock  
Navajo Nation Minerals Dept.



JUNE 15, 1999



**Chevron**

MECHANICAL INTEGRITY TESTS  
RWU #25 (23-23B)  
EPA ID# UT02420  
UINTAH COUNTY, UTAH


Chevron U.S.A. Production Co.  
Rocky Mountain Profit Center  
11002 East 17500 South  
Vernal, UT 84078-8526  
(801) 781-4300

MR. JOHN CARSON  
UIC IMPLEMENTATION SECTION  
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION VIII  
999 18th STREET - SUITE 500  
DENVER, CO 80202-2466  
8ENF-T

Dear Mr. Carson:

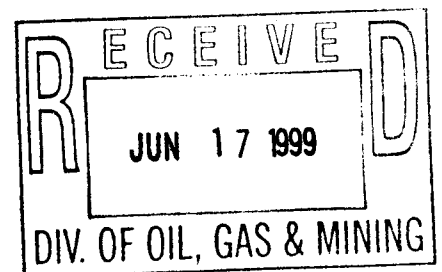
Results of a recent mechanical integrity test for the captioned well are enclosed. If you have any questions or comments, please contact me at (435) 781-4301.

Sincerely,

  
\_\_\_\_\_  
J. T. CONLEY  
RED WASH ASSET TEAM LEADER

cc Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, UT 84114-5801  
Attn. Mr. Gil Hunt

U.S Department of the Interior  
Bureau of Land Management  
Vernal District Office  
170 South 500 East  
Vernal, UT 84078



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

MOBIL PRODUCING TX & NM INC.\*  
\*MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM

3. Address and Telephone No.

P.O. Box 633, Midland TX 79702 (915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEC. 18, T41S, R24E  
(NE/SW) 2385' FSL & 2040' FWL

FORM APPROVED

Budget Bureau No. 1004-0135  
Expires: March 31, 1993

5. Lease Designation and Serial No.

14-20-603-353

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

RATHERFORD UNIT

8. Well Name and No.

RATHERFORD 18-W-23

9. API Well No.

43-037-30244

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

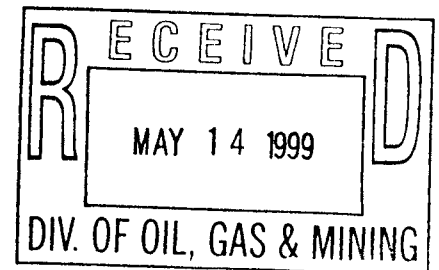
TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other MIT CHART
- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

SEE ATTACHED CHART.



14. I hereby certify that the foregoing is true and correct

Signed

*Shirley Houchins*

Title SHIRLEY HOUCHINS/ENV & REG TECH

Date 5-12-99

(This space for Federal or State office use)

Approved by

Title

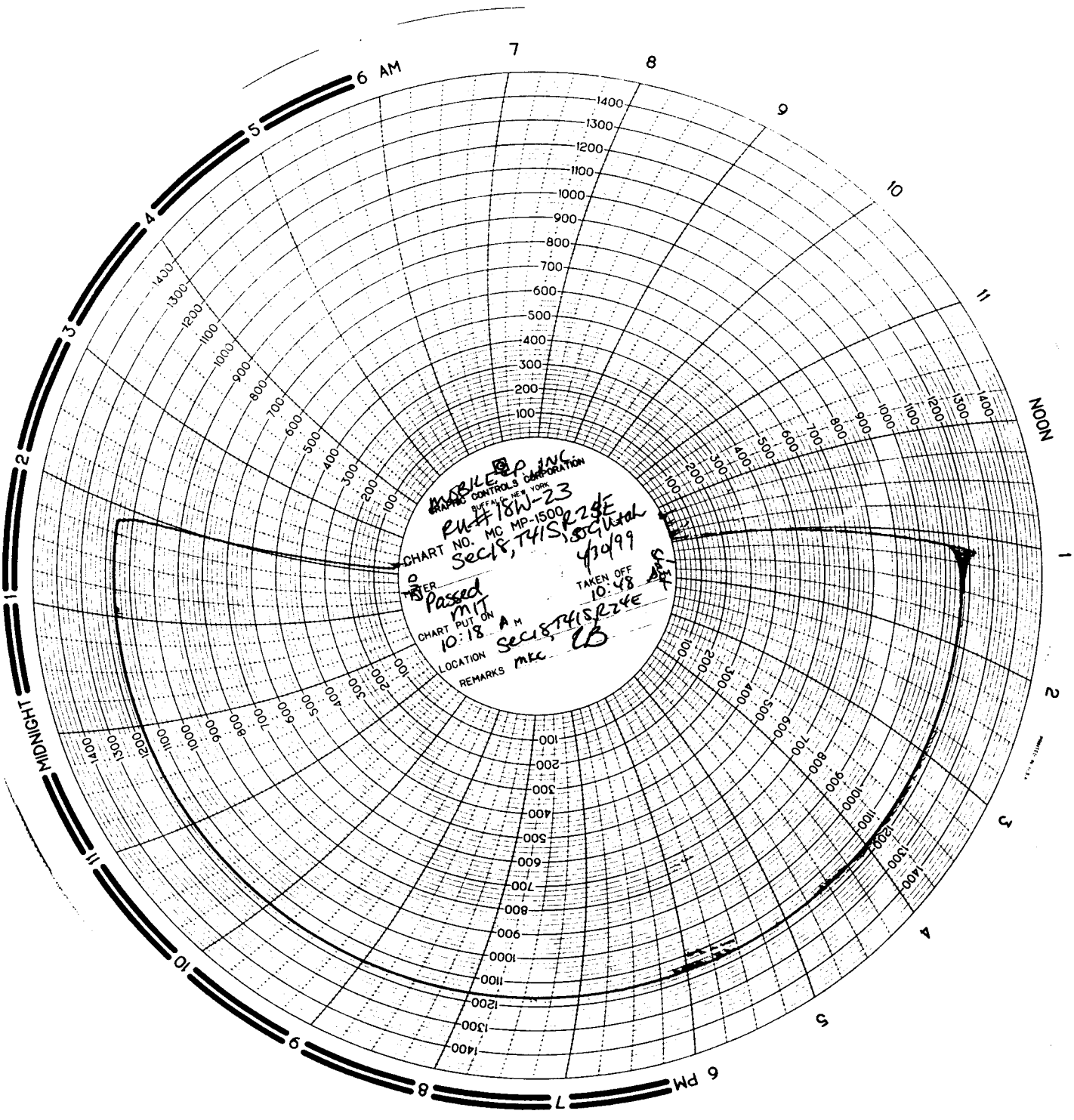
Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\* See Instruction on Reverse Side





**MARKLE P INC**  
BUFFALO, NEW YORK  
CHART NO. MC MP-1500  
Sec 18, 14, 15, 24 E  
4/30/99  
TAKEN OFF 10:48  
CHART PUT ON 10:18 A.M.  
Sec 18, 14, 15, 24 E  
LOCATION MKE LB  
REMARKS

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires: July 31, 1996

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other **INJECTION WELL**

2. Name of Operator **MOBIL PRODUCING TX & NM INC.\***  
**\*MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM**

3a. Address **P.O. Box 4358**  
**Houston TX 77210-4358**

3b. Phone No. (include area code)  
**(713) 431-1197**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**SEC. 18, T41S, R24E NE/SW 2385' FSL & 2040' FWL**

5. Lease Serial No.

**14-20-603-**

6. If Indian, Allottee or Tribe Name

**NAVAJO TRIBAL**

7. If Unit or CA/Agreement, Name and/or No.

**RATHERFORD UNIT**

8. Well Name and No.

**RATHERFORD UNIT 18W-23**

9. API Well No.

**43-037-30244**

10. Field and Pool, or Exploratory Area

**GREATER ANETH**

11. County or Parish, State

**SAN JUAN UT**

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>ANNULAR PRESSURE</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including recalcination, have been completed, and the operator has determined that the site is ready for final inspection.)

\*\*\* CORRECTED \*\*\*

This Sundry Notice is for notification purposes.

Ratherford Unit #18W-23 has been shut in due to 500 psi on the backside. This pressure may or may not involve a casing integrity issue. It is possible that the pressure may be due to a mechanical problem.

Our current plans are to pull packer equipment, cleanout wellbore, establish rate and pressure in casing, and temporarily abandon the wellbore. A detailed procedure will be submitted as soon as it is available.

**RECEIVED**

MAR 06 2000

DIVISION OF  
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

**Ellen M. Carroll**

Title

**Senior Staff Office Assistant**

On behalf of Mobil Exploration  
& Production US Inc.

Signature

*Ellen M. Carroll*

Date

**03/01/2000**

as agent for Mobil Producing  
TX & NM Inc.

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**COPY SENT TO OFFICE**

**FOR RECORD ONLY**

(Instructions on Reverse)

Date: **3-13-00**  
Initials: **LRP**

**Federal Approval of this  
Action is Necessary**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires: July 31, 1996

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other **INJECTION WELL**

2. Name of Operator

**Exxon Corp.**

3a. Address **P.O. Box 4358  
Houston TX 77210-4358**

3b. Phone No. (include area code)  
**(713) 431-1197**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**SEC. 18, T41S, R24E NE/SW 2385' FSL & 2040' FWL**

5. Lease Serial No.

**14-20-603-353**

6. If Indian, Allottee or Tribe Name

**NAVAJO TRIBAL**

7. If Unit or CA/Agreement, Name and/or No.

**RATHERFORD UNIT**

8. Well Name and No.

**RATHERFORD UNIT 18W-23**

9. API Well No.

**43-037-30244**

10. Field and Pool, or Exploratory Area

**GREATER ANETH**

11. County or Parish, State

**SAN JUAN UT**

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>Annular pressure-</b>
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<b>request for</b>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	<b>extension to repair.</b>

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including recalculation, have been completed, and the operator has determined that the site is ready for final inspection.)

\*\*\* Revision to plans for well and request for extension \*\*\*

We plan to repair and retest this well rather than temporarily abandon as indicated in the prior Sunder Notice dated 3/1/00.

A detailed procedure will be submitted.

We request a 60-day extension for repairing and retesting this well.

**RECEIVED**

**APR 27 2000**

**DIVISION OF  
OIL, GAS AND MINING**

COPY SENT TO OPERATOR  
Date: 4-28-00  
Initials: CHD

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

**Ellen M. Carroll**

Signature

*Ellen M. Carroll*

**FOR RECORD ONLY**

Title

**Senior Staff Office Assistant**

Date

**04/25/2000**

**ExxonMobil Production Company,  
A division of Exxon Mobil Corporation,  
acting for Mobil Producing  
Texas & New Mexico Inc.**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

**Federal Approval of this  
Action is Necessary**

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires: July 31, 1996

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <b>INJECTION WELL</b>		5. Lease Serial No. <b>14-20-603</b> <b>-353</b>
2. Name of Operator <b>Mobil Producing TX. &amp; N.M. Inc.</b>		6. If Indian, Allottee or Tribe Name <b>NAVAJO TRIBAL</b>
3a. Address <b>P.O. Box 4358</b> <b>Houston TX 77210-4358</b>	3b. Phone No. (include area code) <b>(713) 431-1197</b>	7. If Unit or CA/Agreement, Name and/or No. <b>RATHERFORD UNIT</b>
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>Sec. 18, T41S, R24E NE/SW 2385' FSL &amp; 2040' FWL</b>		8. Well Name and No. <b>RATHERFORD UNIT 18W-23</b>
		9. API Well No. <b>43-037-30244</b>
		10. Field and Pool, or Exploratory Area <b>GREATER ANETH</b>
		11. County or Parish, State <b>SAN JUAN UT</b>

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>Annular Pressure</b>
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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Attached is the procedure to pull packer equipment, clean out wellbore, repair potential casing leak, and return well to injection.

The procedure indicates a change of plans, as we will not temporarily abandon the wellbore as previously indicated.

RECEIVED  
MAY 17 1999  
DIVISION OF  
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) <b>Ellen M. Carroll</b>	Title <b>Sr. Staff Office Assistant</b>
Signature <i>Ellen M. Carroll</i>	Date <b>05/16/2000</b>

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title <b>Accepted by the</b>
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office <b>Utah Division of</b>
	<b>Oil, Gas and Mining</b>

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**FOR RECORD ONLY**

(Instructions on Reverse)

**Federal Approval of this  
Action is Necessary**

**COPY SENT TO OPERATOR**  
Date: **5-27-00**  
Initials: **CHP**

— ATTACHMENT - FORM 3160-5 —  
RATHERFORD UNIT #18-W-23  
API #43-037-30244 SEC. 18, T41S, R24E  
SAN JUAN COUNTY, UTAH

**OBJECTIVE:** To pull packer equipment, clean out wellbore, repair potential casing leak, and return well to injection.

**A) GENERAL WELL IDENTIFICATION INFORMATION**

WELL : Ratherford Unit #18-W-23  
FIELD : Greater Aneth Area  
LEASE : Ratherford  
COUNTY : San Juan County  
STATE : Utah

**B. GENERAL WELL INFORMATION:**

Zone(s): Desert Creek  
Perfs: 5594'-5608'  
Initial Completion Date: 9/6/75  
Est. BHP: 4460psi  
Est. SITP: 2000psi  
Total Depth: 5785'  
PBSD: 5623'  
Open Hole Depth: n/a  
Top of Fish: none  
Top of Cmt: 2600'  
Method: Log\_x\_ or Calc\_\_\_\_  
Surface Casing: 13 3/8", 27.1#, 112' w/125sx cmt, 8 5/8", 24#, J55, 1550' w/550sx cmt  
Production Casing: 5 1/2", 15.5#, 5784', w1000cu ft + 100sx cmt  
RKB: 13'

Well Tests: na  
Fluid Levels: na  
Injection Support:

**C. Materials Needed:**

- a. 2 7/8" workstring
- b. 5 1/2" treating pkr, 5 1/2" RBP, 5 1/2" Cmt Ret

**D. Troubleshooting:**

2/24/2000 – The production tech and drilling supervisor found csg pressure between 5 1/2" production csg and 8 5/8" intermediate csg during well control operations to blowdown the tbg. The objective was to kill the tbg so that the leaking master valve could be replaced. However, before they could bleed the pressure off the tbg, they noticed that the production csg had 500# on it. At that point, they attempted to bleed the pressure off the production

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DIVISION OF  
OIL, GAS AND MINING

— ATTACHMENT - FORM 3160-5 —  
RATHERFORD UNIT #18-W-23  
API #43-037-30244 SEC. 18, T41S, R24E  
SAN JUAN COUNTY, UTAH

csg only to find that the intermediate csg also registered approximately 500psi. They then proceeded to bleed the pressure off the intermediate csg until they caught fluid and decided to shut the csg in and contact the subsurface engr.

2/21/2000 – Production Tech found 2500psi on tbg and 560psi on the csg. He bled the pressure off the csg and proceeded to blowdown the tbg.

2/18 - 20/2000 - Production tech moved in pump and tanks to blowdown tbg and change out leaking master valve. The tbg pressure dropped from 3000psi to 2500psi, and the csg pressure was 0psi. However the well wouldn't blowdown, so the production tech shut the well in over the weekend.

5/99 – The well was returned to injection at a rate of 100bwpd, tbg pressure was 2850psi, and a csg pressure was 0psi.

3/99 – The well was shut-in because of a suspected csg leak. It was on the rig schedule to be pulled but was canceled.

**GENERAL PROCEDURES.**

**Note – Drilling Fluids**

- Keep all particulate materials out of curves and laterals if at all possible.
- Minimize the use of particulate muds (carbonates) if possible.
- If CaCl<sub>2</sub> brine is used, then add 0.1% by volume of safebreak CBF to brine. This will break any emulsion that forms.
- If particulate muds (carbonate mud) is used, minimize the use of non-acid soluble materials such as barite. Use barite weighted carbonate mud only when necessary.

*Note – Call ahead (at least 48hrs prior to testing) to the Navajo EPA and BLM so that they have time to find a witness for the MIT test if needed once the injection string is run back in. The backside should be tested to 1000psi with no more than a 10% loss in 30minutes if a successful test is to be obtained. The test should be charted and an original copy sent to Ellen Carroll (713-431-1197) in Houston, Tx.*

- (1) Prior to MIRU PU, MIRU perf company and perforate tbg at approximately 5450'. Circ calculated kill fluid down the casing and up the tbg to establish well control. 6hrs
- (2) MIRU PU. Pick up on tbg and LD 1<sup>st</sup> joint. PU compression set pkr (storm valve) and RIH and set in compression. Monitor the well for pressure for a least one hour. 2hrs

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MAY 16 2000  
DIVISION OF  
OIL, GAS AND MINING

— ATTACHMENT - FORM 3160-5 —  
RATHERFORD UNIT #18-W-23  
API #43-037-30244 SEC. 18, T41S, R24E  
SAN JUAN COUNTY, UTAH

*Note – Storm valve – (compression set pkr) – is a combination valve and backoff joint which is used to close in a well being drilled, without having to pull existing pipe. Usually, a hook wall pkr is used with the storm valve to support the weight of the pipe. The pkr seals inside the csg and the storm valve seals the inside diameter of the pipe. Although this device is primarily used offshore, it can be used on land to isolate the wellbore fluids while changing out wellheads.*

- (3) Once well control has been re-confirmed, proceed to remove 3000psi wellhead and install 5000psi wellhead. 2hrs

*Note – This step will require and MOC because there is only one isolation method.*

- (4) NU BOP/Hydril. Pick up pkr setting joint and left-handed thread and retrieve pkr (storm valve). 3hrs
- (5) POOH LD first joint and SB remaining 2 3/8" duoline tbg and LD Guiberson G6 pkr. 4hrs
- (6) Guiberson (Halliburton) should be on hand to inspect pkr equipment. 1hr
- (7) PU treating pkr and 5 1/2" RBP and RIH on workstring. 4hrs
- (8) Set RBP at 5500' and test plug. Once plug integrity has been established, proceed to circulate out kill mud and circ in produced water and perform csg test. 2hrs
- (9) Test csg to 1000# including a negative test. If csg holds proceed to step 12 otherwise see note below. 4hrs

*Note – If csg doesn't hold then proceed to step (10)*

- (10) Begin isolating the leak by testing to 300# starting with pkr set @ 2750'. 4hrs
- (11) Once leak has been isolated within 50', establish rate and pressure. 3hrs  
Notify SSE of findings before proceeding further (713-431-1253).
- (11a) If rate is less than 0.5bpm and pressure is greater than 500psi, then prepare to TA wellbore using a Cmt Ret .

**Note - (hrs & cost not included in proposed total job hrs)**

- (11a -1) POOH SB workstring and LD pkr and plug. 2hrs  
(11a-2) Pick up Cmt Ret and RIH on workstring to 5550'. 2hrs

**ATTACHMENT - FORM 3160-5  
RATHERFORD UNIT #18-W-23  
API #43-037-30244 SEC. 18, T41S, R24E  
SAN JUAN COUNTY, UTAH**

- (11a-3) Test plug to 1000psi for 30min. 1hr**
- (11a-4) Dump 1sx of cmt on top of Cmt Ret. 1hr**
- (11a-5) Circ out kill fluid and circ in pkr fluid. 5hrs**
- (11a-6) POOH LD workstring . 4hrs**
- (11a-7) ND BOP/Hydril and NU wellhead. 2hrs**
- (11a-8) Clean location and notify BLM to witness MIT. 2hrs**

**(11b) If rate is greater than 0.5bpm and pressure is lower than 500psi, then prepare to squeeze leak using class B cmt.**

**Note -(Additional hrs (\*) & costs are included in proposed total job hrs)**

- (11b-1) Dump 1sx of sand on top of RBP. 1hr \***
- (11b-2) MIRU cmt company. 2hrs\***
- (11b-3) Proceed to perform squeeze work per subsurface engineer and Dowell cmt rep. 6hrs\***
- (11b-4) Drill out cmt and pressure test csg to 300-500psi. 4hrs\***
- (11b-5) RIH w/ workstring and retrieve RBP and treating pkr. 2hrs\***
- (11b-5) POOH LD workstring, treating pkr, and RBP. 6hrs**
- (11 b-6) PU replacement 5 1/2" x 2 3/8" on/off tool, 5 1/2" pkr (type to be decided after failure equipment has been pulled) w/ profile, and pump-out plug. MIRU Campbell tbg testers. 3hrs**
- (11b-7) RIH w/ existing 2 3/8" tbg, testing each connection to 3500psi using nitrogen. Set 5.5" pkr (type to be decided after equipment has been pulled) @5488'. Do not set pkr any lower than 5518' and no higher 5478'. The original packer depth was 5498'. Pressure test csg to 1000 psi. 5hrs**
- (11b-8) RDMO Campbell tbg testers and inspection. 2hrs**
- (11b-9) Release on/off tool, circ. Pkr. Fluid (137bbls of freshwater w/ 58gal of Baker Petrolite CRW 132F) latch on to pkr. 3hrs**
- (11b-10) ND BOP/Hydril, NU WH. 2hrs**
- (11b-11) Test tbg to 1000 psi and pump-out plug. 1hr**
- (11b-12) Clean location RDMO PU. 2hrs**
- (11b-13) Notify James Madison ( 970-565-1351) to perform PSSR and approve location before releasing roustabouts .**

**Warning - STOP! – Do not proceed to step 12 if you have completed step 11b-13.**

*Note – Call ahead (at least 48hrs prior to testing) to the Navajo EPA and BLM so that they have time to find a witness for the MIT test if needed once the injection string is run back in. The backside should be tested to 1000psi with no more than a 10% loss in 30minutes if a successful test is to be obtained. The test should be charted and an original copy sent to Ellen Carroll (713-431-1197) in Houston*

- (12) POOH LD WS, treating pkr and RBP. 6hrs**
- (13) PU replacement 5.5" x 2 3/8" on/off tool, 5.5" pkr w/ profile, and pump-out plug. MIRU Campbell tbg testers. 3hrs**



ATTACHMENT - FORM 3160-5  
RATHERFORD UNIT #18-W-23  
API #43-037-30244 SEC. 18, T41S, R24E  
SAN JUAN COUNTY, UTAH

(14) RIH w/ existing 2 3/8" tbg, testing each connection to 3500psi using nitrogen. set 5.5" pkr (type to be decided after equipment has been pulled) @5488'. Do not set pkr any lower than 5518' and no higher 5478'. The original packer depth was 5498'. Pressure test csg to 1000 psi. 5hrs

(15) RDMO Campbell tbg testers and inspection. 2hrs

(16) Release on/off tool, circ. Pkr. Fluid (137bbls of freshwater w/ 58gal of Baker Petrolite CRW 132F) latch on to pkr. 3hrs

*Note – Volume based on a pkr setting depth of 5488' + 5% of total volume.*

(17) ND BOP/Hydril, NU WH. 2hrs

*Note – Call ahead (at least 48hrs prior to testing) to the Navajo EPA and BLM so that they have time to find a witness for the MIT test if needed once the injection string is run back in. The backside should be tested to 1000psi with no more than a 10% loss in 30minutes if a successful test is to be obtained. The test should be charted and an original copy sent to Ellen Carroll (713-431-1197) in Houston, Tx.*

(18) Test tbg to 1000 psi and pump-out plug. 1hr

(19) Clean location RDMO PU. 2hrs

(20) Notify James Madison ( 970-565-1351) to perform PSSR (Pre-Start up Safety Review) and approve location before releasing roustabouts. 1hr

ATTACHMENT - FORM 3160-5  
RATHERFORD UNIT #18-W-23  
API #43-037-30244 SEC. 18, T41S, R24E  
SAN JUAN COUNTY, UTAH

OVERALL OBJECTIVE:

To pull equipment

(2) Cleanout w/ bit and scraper

(3) Establish rate in pressure into leak

(4) TA wellbore w/ CIBP

Csg size - 5 1/2", 15.5#, 5784',  
1000cu ft +100 sx

Conductor pipe - 13 3/8", 27.1#, 112',  
125sx  
Surface csg - 8 5/8", 24#, J55, 1550',  
550sx

Conductor pipe  
Shoe @112'

2 3/8" duoline tbg

Surface Csg Shoe @1550'

MUD WEIGHT: est 15.6ppg  
MUD VISCOSITY:

COMPLETION DATE: \_\_\_\_\_  
TOTAL COST: \_\_\_\_\_

EXISTING EQUIPMENT

2 3/8" string of duoline  
tbg  
5 1/2" x 2 3/8" Guiberson  
G6 pkr at 5498'

NEW EQUIPMENT INFO

2 3/8" duoline tbg  
5 1/2" x 2 3/8" on/off tool  
w/ profile  
5 1/2" x 2 3/8" Guiberson  
Uni VI pkr at 5488'  
w/ profile

TOC 2600'

Pkr depth @ 5498'

RECEIVED

11/17/00

DIVISION OF  
OIL, GAS AND MINING

Drill out cmt to 5623'  
Drill out cmt to 5685'  
Cmt Ret @5696'  
Original PBTD 5741'  
TD5785'

Perfs 5594' - 5585'

Sqz'd off 5681' - 5685'

Sqz'd off 5707-5716'

**ATTACHMENT - FORM 3160-5  
RATHERFORD UNIT #18-W-23  
API #43-037-30244 SEC. 18, T41S, R24E  
SAN JUAN COUNTY, UTAH**

**CASING LEAK RIG-UPS, SQUEEZE NOTIFICATIONS, AND QUESTIONS ABOUT  
PRESSURE TEST REQUIREMENTS;**

BLM – 505 599-8907, NOTIFY BEFORE SQUEEZE SO THEY CAN WITNESS IF THEY WANT

IF CASING LEAK IS A SURPRISE (WASN'T EXPECTED), DISCUSS PLAN WITH THE ENGINEER.  
THEN CALL WAYNE TOWNSEND 505 599-6359 AND DISCUSS THE PROBLEM AND PLAN.  
ENGR WILL PREPARE A DOCUMENTATION PROCEDURE TO SEND TO SHIRLEY HOUCHINS

1. WELL CONTROL. WELL SUBSEQUENTLY CONTROLLED WITH FRESH WATER, CLEAN 10# BRINE, HEAVY SALT MUD  $\text{CaCl}_2$  UP TO 11.6# w/0.1% *Safebreak CBF*, PARTICULATE  $\text{CaCO}_3$  MUD UP TO 12.6, AND BARITE MUD ABOVE 12.6#. FOR THE TIME BEING WE ARE AVOIDING SNUBBING UNITS.
2. CASING LEAK SQUEEZES WILL BE DONE WITH CLASS G NEAT. SUCCESS RATE WITH THIS CEMENT FROM HALLIBURTON IS 80%. OTHER TECHNIQUES AND COMPANIES WILL NOT BE USED AS LONG AS SUCCESS RATE CONTINUES. INJECTORS HAVE TO PASS 1000# /30 MINS, PRODUCERS 500#/30 MINS. DO NOT TEST UNLESS YOU SUSPECT LEAK.
  - A. FOR SHALLOW LEAKS WITH NO CMT ON CASING ANNULUS, CONSIDER CUTTING OUT THE BAD SECTION OF PIPE, POH, AND TIE BACK AND CEMENT A NEW SECTION OF CASING.
  - B. FOR BLEED OFF LEAKS SPOT CMT ACROSS AND ABOVE LEAK, PRESSURE UP TO 1500# UNTIL SQUEEZES. POH, SI BLINDS AND RE-PRESSURE UP TO 1500# SION W/PRESSURE ON SQUEEZE.
  - C. FOR EIR > 0.5 BPM AND LEAKS DEEPER THAN 1000' USE CMT RETAINER, SAME CEMENT. DO NOT DO NOT FAIL TO CALL OUT ENOUGH CEMENT TO SQUEEZE THE LEAK. THE EXTRA COST OF THE BULK CEMENT IS EASILY JUSTIFIED VS. THE COST OF A FAILED SQUEEZE DUE TO NOT ENOUGH CEMENT.

RECEIVED  
MAY 17 2000  
OFFICE OF  
OIL, GAS AND MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires: July 31, 1996

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <b>INJECTION WELL</b>		5. Lease Serial No. <b>14-20-603-247A -353</b>
2. Name of Operator <b>Mobil Producing TX. &amp; N.M. Inc.</b>		6. If Indian, Allottee or Tribe Name <b>NAVAJO TRIBAL</b>
3a. Address <b>P.O. Box 4358</b> <b>Houston TX 77210-4358</b>	3b. Phone No. (include area code) <b>(713) 431-1197</b>	7. If Unit or CA/Agreement, Name and/or No. <b>RATHERFORD UNIT</b>
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>Sec. 18, T41S, R24E NE/SW 2385' FSL &amp; 2040' FWL</b>		8. Well Name and No. <b>RATHERFORD UNIT 18W-23</b>
		9. API Well No. <b>43-037-30244</b>
		10. Field and Pool, or Exploratory Area <b>GREATER ANETH</b>
		11. County or Parish, State <b>SAN JUAN UT</b>

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input checked="" type="checkbox"/> Temporarily Abandon	_____
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including recalculation, have been completed, and the operator has determined that the site is ready for final inspection.)

After further evaluation, we plan to temporarily abandon this wellbore. This is a change of plans from the previous Sundry Notice dated April 25, 2000. The procedure for temporary abandonment is attached.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

RECEIVED  
JUL 21 2000  
DIVISION OF  
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) <b>Ellen M. Carroll</b>		Title <b>Sr. Staff Office Assistant</b>	<b>ExxonMobil Production Company, A division of Exxon Mobil Corporation, acting for Mobil Producing Texas &amp; New Mexico Inc.</b>
Signature <i>Ellen M. Carroll</i>		Date <b>07/21/2000</b>	

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attacheed. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on Reverse)

**ATTACHMENT - FORM 3160-5  
RATHERFORD UNIT #18W23  
API #43-037-30244 SEC. 18, T41S, R24E  
SAN JUAN COUNTY, UTAH**

**A) GENERAL WELL IDENTIFICATION INFORMATION**

FIELD : Greater Aneth Area  
LEASE : Ratherford  
COUNTY : San Juan County  
STATE : Utah  
API# : 43-037-30244

**B. GENERAL WELL INFORMATION:**

Zone(s): Desert Creek  
Perfs: 5594'-5608'  
Initial Completion Date: 9/6/75  
Est. BHP: 4460psi  
Est. SITP: 2000psi  
Total Depth: 5785'  
PBTD: 5623'  
Open Hole Depth: n/a  
Top of Fish: none  
Top of Cmt: 2600'  
Method: Log\_x\_ or Calc\_\_\_\_  
Surface Casing: 13 3/8", 27.1#, 112' w/125sx cmt, 8 5/8", 24#, J55, 1550' w/550sx cmt  
Production Casing: 5 1/2", 15.5#, 5784', w1000cu ft + 100sx cmt  
RKB: 13'

Well Tests:

Fluid Levels:

Injection Support:

**C. Troubleshooting:**

**2/24/2000 – The production tech and drilling supervisor found csg pressure between 5 1/2" production csg and 8 5/8" intermediate csg during well control operations to blowdown the tbg. The objective was to kill the tbg so that the leaking master valve could be replaced. However, before they could bleed the pressure off the tbg, they noticed that the production csg had 500# on it. At that point, they attempted to bleed the pressure off the production csg only to find that the intermediate csg also registered approximately 500psi. They then proceeded to bleed the pressure off the intermediate csg until they caught fluid and decided to shut the csg in and contact the subsurface engr.**

**ATTACHMENT - FORM 3160-5  
RATHERFORD UNIT #18W23  
API #43-037-30244 SEC. 18, T41S, R24E  
SAN JUAN COUNTY, UTAH**

**2/21/2000 – Production Tech found 2500psi on tbg and 560psi on the csg. He bled the pressure off the csg and proceeded to blowdown the tbg.**

**2/18 - 20/2000 - Production tech moved in pump and tanks to blowdown tbg and change out leaking master valve. The tbg pressure dropped from 3000psi to 2500psi, and the csg pressure was 0psi. However the well wouldn't blowdown, so the production tech shut the well in over the weekend.**

**5/99 – The well was returned to injection at a rate of 100bwpd, tbg pressure was 2850psi, and a csg pressure was 0psi.**

**3/99 – The well was shut-in because of a suspected csg leak. It was on the rig schedule to be pulled but was canceled because of low oil prices.**

### **EHS Instructions**

- A. All potential loss of well control and/or spills of formation fluids must be reported to the necessary governing agency immediately.**
- B. Material Safety Data Sheets (MSDS) must be maintained on location for all materials and fluids except standard lubricants.**
- C. SPCC plans for both the operator and the rig contractor should be available on location, preferably posted for convenience.**
- D. Location hazard diagram provided should be distributed to the appropriate contractors.**
- E. H2S exposure radius sheet attached should also be posted for workers to see.**
- F. All discolored soil should be picked up and taken to the remediation area. Replace with remediated soil.**

***When closing pits, cut the pit liner at the mud line & then backfill according to field specs. For more information contact Davis Benallie of the Navajo EPA.***

### **GENERAL PROCEDURES.**

***For injection wells only***

***Note – Call ahead (at least 48hrs prior to testing) to the Navajo EPA and BLM so that they have time to find a witness for the MIT test if needed once the injection string is run back in. The backside should be tested to 1000psi with no more than a 10% loss in 30minutes if a successful test is to be obtained. The test should be charted and an original copy sent to Ellen Carroll (713-431-1197) in Houston, Tx.***

- (1) MIRU perf company. Perforate tbg approximately 1jt above pkr (pkr @5498') and circ kill fluid down the tbg and up the csg.**

**ATTACHMENT - FORM 3160-5  
RATHERFORD UNIT #18W23  
API #43-037-30244 SEC. 18, T41S, R24E  
SAN JUAN COUNTY, UTAH**

- (2) MIRU PU, ND WH, NU BOP/hydril.**
- (3) Release Guiberson G6 pkr and POOH SB 2 3/8" duoline tbg and LD pkr equipment.**
- (4) Notify Baker Petrolite rep (Gary Roberts p-505-564-5321) and have him inspect tbg and pkr equipment.**
- (5) PU 5 1/2" cmt ret and RIH on existing 2 3/8" injection string.**

**(6) Set cmt ret @ 5475' +/- 20' and test to 350psi w/ mud in the hole.**

**(7) Sting out of cmt ret and circ out kill fluid and circ in 1.15 by tbg & csg volume of pkr fluid (150bbls) w/ 1% inhibitor solution (63gal of CRW 132), and circ out calculated kill fluid.**

**(8) Pressure test to 1000psi.**

*Note – If does not hold, consult with OE or FT for further instructions*

**(9) POOH LD 2 3/8" injection string & leave 1jt at surface.**

**(10) MIRU wireline. PU bailer and RIH and dump 1sx of cmt on top of CIBP.  
POOH w/ wireline unit and dump bailer.**

*Note – Baker Petrolite rep needs to inspect the flowline for possible inhibition as well.*

**(11) ND BOPE/ NU WH.**

**(12) RUN MIT**

*Note – Call ahead (at least 48hrs prior to testing) to the Navajo EPA and BLM so that they have time to find a witness for the MIT test if needed once the injection string is run back in. The backside should be tested to 1000psi with no more than a 5% loss in 30minutes if a successful test is to be obtained. The test should be charted and an original copy sent to Ellen Carroll (713-431-1197) in Houston, Tx*

**(13) RDMO and clean location.**

ATTACHMENT - FORM 3160-5  
RATHERFORD UNIT #18W23  
API #43-037-30244 SEC. 18, T41S, R24E  
SAN JUAN COUNTY, UTAH

**BEFORE:**

Conductor pipe – 13 3/8", 27.1#,  
112', 125sx

Surface csg – 8 5/8",  
24#, J55, 1550', 550sx

MUD WEIGHT: est 15.6ppg  
MUD VISCOSITY:

**EXISTING EQUIPMENT**

2 3/8" string of duoline  
tbg  
5 1/2" x 2 3/8" Guiberson  
G6 pkr at 5498'

Drill out cmt to 5623'  
Drill out cmt to 5685'  
Cmt Ret @5696'  
Original PBTD 5741'  
TD5785'

Csg size – 5 1/2", 15.5#,  
5784', 1000cu ft +100 sx

**OVERALL OBJECTIVE:**

- (1) To pull equipment
- (2) RIH w/ cmt ret or RBP & TA  
wellbore

Conductor pipe  
Shoe @112'

2 3/8" duoline tbg

Surface Csg Shoe @1550'

COMPLETION DATE: \_\_\_\_\_  
TOTAL COST: \_\_\_\_\_

**NEW EQUIPMENT INFO**

TOC 2600'

Pkr depth @ 5498'

Perfs 5594' – 5585'

Sqz'd off 5681' - 5685'

Sqz'd off 5707-5716'



ATTACHMENT - FORM 3160-5  
RATHERFORD UNIT #18W23  
API #43-037-30244 SEC. 18, T41S, R24E  
SAN JUAN COUNTY, UTAH

**AFTER:**

**OVERALL OBJECTIVE:**

- (1) To pull equipment
- (2) RIH w/ cmt ret or CIBP & TA wellbore

Conductor pipe - 13 3/8",  
27.1#, 112', 125sx

Surface csg - 8 5/8", 24#,  
J55, 1550', 550sx

MUD WEIGHT:  
MUD VISCOSITY:

**EXISTING EQUIPMENT**

Conductor pipe  
Shoe @112'

Surface Csg Shoe @1550'

COMPLETION DATE: \_\_\_\_\_  
TOTAL COST: \_\_\_\_\_

**NEW EQUIPMENT INFO**

- 150bbls of pkr fluid w/  
63gallons of CRW132
- 1sx of cmt
- CMT RET set at 5475'  
+/- 20'

TOC 2600'

CIBP set @ 5475' +/- 20'

Drill out cmt to 5623'  
Drill out cmt to 5685'  
Cmt Ret @5696'  
Original PBTD 5741'  
TD5785'

Perfs 5594' - 5508'

Sqz'd off 5681' - 5685'

Sqz'd off 5707-5716'

Csg size -5 1/2", 15.5#, 5784',  
1000cu ft +100 sx

**ATTACHMENT - FORM 3160-5  
RATHERFORD UNIT #18W23  
API #43-037-30244 SEC. 18, T41S, R24E  
SAN JUAN COUNTY, UTAH**

**GENERAL REQUIREMENTS**

CASING LEAK SQUEEZES WILL BE DONE WITH CLASS G NEAT. SUCCESS RATE WITH THIS CEMENT FROM HALLIBURTON IS 80%. OTHER TECHNIQUES AND COMPANIES WILL NOT BE USED AS LONG AS SUCCESS RATE CONTINUES. INJECTORS HAVE TO PASS 1000# /30 MINS, PRODUCERS 500#/30 MINS. DO NOT TEST UNLESS YOU SUSPECT LEAK.

FOR SHALLOW LEAKS WITH NO CMT ON CASING ANNULUS, CONSIDER CUTTING OUT THE BAD SECTION OF PIPE, POH, AND TIE BACK AND CEMENT A NEW SECTION OF CASING.

FOR BLEED OFF LEAKS SPOT CMT ACROSS AND ABOVE LEAK, PRESSURE UP TO 1500# UNTIL SQUEEZES. POH, SI BLINDS AND RE-PRESSURE UP TO 1500# SION W/PRESSURE ON SQUEEZE.

FOR EIR > 0.5 BPM AND LEAKS DEEPER THAN 1000' USE CMT RETAINER, SAME CEMENT. DO NOT FAIL TO CALL OUT ENOUGH CEMENT TO SQUEEZE THE LEAK. THE EXTRA COST OF THE BULK CEMENT IS EASILY JUSTIFIED VS. THE COST OF A FAILED SQUEEZE DUE TO NOT ENOUGH CEMENT.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires: July 31, 1996

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
**14-20-603-247A -353**

6. If Indian, Allottee or Tribe Name  
**NAVAJO TRIBAL**

7. If Unit or CA/Agreement, Name and/or No.  
**RATHERFORD UNIT**

8. Well Name and No.  
**RATHERFORD UNIT 18W-23**

9. API Well No.  
**43-037-30244**

10. Field and Pool, or Exploratory Area  
**GREATER ANETH**

11. County or Parish, State  
**SAN JUAN UT**

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other **INJECTION WELL**

2. Name of Operator

**Mobil Producing TX. & N.M. Inc.**

3a. Address **P.O. Box 4358  
Houston**

**TX 77210-4358**

3b. Phone No. (include area code)

**(713) 431-1197**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**Sec. 18, T41S, R24E NE/SW 2385' FSL & 2040' FWL**

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input checked="" type="checkbox"/> Temporarily Abandon	_____
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including recalcination, have been completed, and the operator has determined that the site is ready for final inspection.)

After further evaluation, we plan to temporarily abandon this wellbore. This is a change of plans from the previous Sundry Notice dated April 25, 2000. The procedure for temporary abandonment is attached.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

RECEIVED

07/21/2000

DIVISION OF  
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

**Ellen M. Carroll**

Title

**Sr. Staff Office Assistant**

**ExxonMobil Production Company,  
A division of Exxon Mobil Corporation,  
acting for Mobil Producing  
Texas & New Mexico Inc.**

Signature

*Ellen M. Carroll*

Date

**07/21/2000**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attacheed. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on Reverse)

**ATTACHMENT - FORM 3160-5  
RATHERFORD UNIT #18W23  
API #43-037-30244 SEC. 18, T41S, R24E  
SAN JUAN COUNTY, UTAH**

**A) GENERAL WELL IDENTIFICATION INFORMATION**

FIELD : Greater Aneth Area  
LEASE : Ratherford  
COUNTY : San Juan County  
STATE : Utah  
API# : 43-037-30244

**B. GENERAL WELL INFORMATION:**

Zone(s): Desert Creek  
Perfs: 5594'-5608'  
Initial Completion Date: 9/6/75  
Est. BHP: 4460psi  
Est. SITP: 2000psi  
Total Depth: 5785'  
PBTD: 5623'  
Open Hole Depth: n/a  
Top of Fish: none  
Top of Cmt: 2600'  
Method: Log\_x\_ or Calc\_\_\_\_  
Surface Casing: 13 3/8", 27.1#, 112' w/125sx cmt, 8 5/8", 24#, J55, 1550' w/550sx cmt  
Production Casing: 5 1/2", 15.5#, 5784', w1000cu ft + 100sx cmt  
RKB: 13'

Well Tests:

Fluid Levels:

Injection Support:

**C. Troubleshooting:**

2/24/2000 – The production tech and drilling supervisor found csg pressure between 5 1/2" production csg and 8 5/8" intermediate csg during well control operations to blowdown the tbg. The objective was to kill the tbg so that the leaking master valve could be replaced. However, before they could bleed the pressure off the tbg, they noticed that the production csg had 500# on it. At that point, they attempted to bleed the pressure off the production csg only to find that the intermediate csg also registered approximately 500psi. They then proceeded to bleed the pressure off the intermediate csg until they caught fluid and decided to shut the csg in and contact the subsurface engr.

RECEIVED

**ATTACHMENT - FORM 3160-5  
RATHERFORD UNIT #18W23  
API #43-037-30244 SEC. 18, T41S, R24E  
SAN JUAN COUNTY, UTAH**

**2/21/2000 – Production Tech found 2500psi on tbg and 560psi on the csg. He bled the pressure off the csg and proceeded to blowdown the tbg.**

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**3/99 – The well was shut-in because of a suspected csg leak. It was on the rig schedule to be pulled but was canceled because of low oil prices.**

**EHS Instructions**

- A. All potential loss of well control and/or spills of formation fluids must be reported to the necessary governing agency immediately.**
- B. Material Safety Data Sheets (MSDS) must be maintained on location for all materials and fluids except standard lubricants.**
- C. SPCC plans for both the operator and the rig contractor should be available on location, preferably posted for convenience.**
- D. Location hazard diagram provided should be distributed to the appropriate contractors.**
- E. H2S exposure radius sheet attached should also be posted for workers to see.**
- F. All discolored soil should be picked up and taken to the remediation area. Replace with remediated soil.**

***When closing pits, cut the pit liner at the mud line & then backfill according to field specs. For more information contact Davis Benallie of the Navajo EPA.***

**GENERAL PROCEDURES.**

***For injection wells only***

***Note – Call ahead (at least 48hrs prior to testing) to the Navajo EPA and BLM so that they have time to find a witness for the MIT test if needed once the injection string is run back in. The backside should be tested to 1000psi with no more than a 10% loss in 30minutes if a successful test is to be obtained. The test should be charted and an original copy sent to Ellen Carroll (713-431-1197) in Houston, Tx.***

- (1) MIRU perf company. Perforate tbg approximately 1jt above pkr (pkr @5498') and circ kill fluid down the tbg and up the csg.**

**RECEIVED**

**ENV. DIV. OF  
OR. L&L AND REG.**

**ATTACHMENT - FORM 3160-5  
RATHERFORD UNIT #18W23  
API #43-037-30244 SEC. 18, T41S, R24E  
SAN JUAN COUNTY, UTAH**

- (2) MIRU PU, ND WH, NU BOP/hydril.**
- (3) Release Guiberson G6 pkr and POOH SB 2 3/8" duoline tbg and LD pkr equipment.**
- (4) Notify Baker Petrolite rep (Gary Roberts p-505-564-5321) and have him inspect tbg and pkr equipment.**
- (5) PU 5 1/2" cmt ret and RIH on existing 2 3/8" injection string.**

**(6) Set cmt ret @ 5475' +/- 20' and test to 350psi w/ mud in the hole.**

**(7) Sting out of cmt ret and circ out kill fluid and circ in 1.15 by tbg & csg volume of pkr fluid (150bbls) w/ 1% inhibitor solution (63gal of CRW 132), and circ out calculated kill fluid.**

**(8) Pressure test to 1000psi.**

*Note – If does not hold, consult with OE or FT for further instructions*

**(9) POOH LD 2 3/8" injection string & leave 1jt at surface.**

**(10) MIRU wireline. PU bailer and RIH and dump 1sx of cmt on top of CIBP.  
POOH w/ wireline unit and dump bailer.**

*Note – Baker Petrolite rep needs to inspect the flowline for possible inhibition as well.*

**(11) ND BOPE/ NU WH.**

**(12) RUN MIT**

*Note – Call ahead (at least 48hrs prior to testing) to the Navajo EPA and BLM so that they have time to find a witness for the MIT test if needed once the injection string is run back in. The backside should be tested to 1000psi with no more than a 5% loss in 30minutes if a successful test is to be obtained. The test should be charted and an original copy sent to Ellen Carroll (713-431-1197) in Houston, Tx*

**(13) RDMO and clean location.**

ATTACHMENT - FORM 3160-5  
RATHERFORD UNIT #18W23  
API #43-037-30244 SEC. 18, T41S, R24E  
SAN JUAN COUNTY, UTAH

**BEFORE:**

Conductor pipe - 13 3/8", 27.1#,  
112', 125sx

Surface csg - 8 5/8",  
24#, J55, 1550', 550sx

MUD WEIGHT: est 15.6ppg  
MUD VISCOSITY:

**EXISTING EQUIPMENT**

2 3/8" string of duoline  
tbg  
5 1/2" x 2 3/8" Guiberson  
G6 pkr at 5498'

Drill out cmt to 5623'  
Drill out cmt to 5685'  
Cmt Ret @5696'  
Original PBTD 5741'  
TDS785'

Csg size - 5 1/2", 15.5#,  
5784', 1000cu ft +100 sx

**OVERALL OBJECTIVE:**

- (1) To pull equipment
- (2) RIH w/ cmt ret or RBP & TA  
wellbore

Conductor pipe  
Shoe @112'

2 3/8" duoline tbg

Surface Csg Shoe @1550'

COMPLETION DATE: \_\_\_\_\_  
TOTAL COST: \_\_\_\_\_

**NEW EQUIPMENT INFO**

TOC 2600'

Pkr depth @ 5498'

Perfs 5594' - 5585'

Sqz'd off 5681' - 5685'

Sqz'd off 5707-5716'

ATTACHMENT - FORM 3160-5  
RATHERFORD UNIT #18W23  
API #43-037-30244 SEC. 18, T41S, R24E  
SAN JUAN COUNTY, UTAH

**AFTER:**

**OVERALL OBJECTIVE:**

- (1) To pull equipment
- (2) RIH w/ cmt ret or CIBP & TA wellbore

Conductor pipe – 13 3/8",  
27.1#, 112', 125sx

Surface csg – 8 5/8", 24#,  
J55, 1550', 550sx

MUD WEIGHT:  
MUD VISCOSITY:

**EXISTING EQUIPMENT**

Conductor pipe  
Shoe @112'

Surface Csg Shoe @1550'

COMPLETION DATE: \_\_\_\_\_  
TOTAL COST: \_\_\_\_\_

**NEW EQUIPMENT INFO**

- 150bbls of pkr fluid w/  
63gallons of CRW132
- 1sx of cmt
- CMT RET set at 5475'  
+/- 20'

TOC 2600'

CIBP set @ 5475' +/- 20'

Drill out cmt to 5623'  
Drill out cmt to 5685'  
Cmt Ret @5696'  
Original PBTD 5741'  
TD5785'

Perfs 5594' – 5508'

Sqz'd off 5681'- 5685'

Sqz'd off 5707-5716'

Csg size – 5 1/2", 15.5#, 5784',  
1000cu ft +100 sx



**ATTACHMENT - FORM 3160-5  
RATHERFORD UNIT #18W23  
API #43-037-30244 SEC. 18, T41S, R24E  
SAN JUAN COUNTY, UTAH**

**GENERAL REQUIREMENTS**

CASING LEAK SQUEEZES WILL BE DONE WITH CLASS G NEAT. SUCCESS RATE WITH THIS CEMENT FROM HALLIBURTON IS 80%. OTHER TECHNIQUES AND COMPANIES WILL NOT BE USED AS LONG AS SUCCESS RATE CONTINUES. INJECTORS HAVE TO PASS 1000# /30 MINS, PRODUCERS 500#/30 MINS. DO NOT TEST UNLESS YOU SUSPECT LEAK.

FOR SHALLOW LEAKS WITH NO CMT ON CASING ANNULUS, CONSIDER CUTTING OUT THE BAD SECTION OF PIPE, POH, AND TIE BACK AND CEMENT A NEW SECTION OF CASING.

FOR BLEED OFF LEAKS SPOT CMT ACROSS AND ABOVE LEAK, PRESSURE UP TO 1500# UNTIL SQUEEZES. POH, SI BLINDS AND RE-PRESSURE UP TO 1500# SION W/PRESSURE ON SQUEEZE.

FOR EIR > 0.5 BPM AND LEAKS DEEPER THAN 1000' USE CMT RETAINER, SAME CEMENT. DO NOT FAIL TO CALL OUT ENOUGH CEMENT TO SQUEEZE THE LEAK. THE EXTRA COST OF THE BULK CEMENT IS EASILY JUSTIFIED VS. THE COST OF A FAILED SQUEEZE DUE TO NOT ENOUGH CEMENT.

**ExxonMobil Production Comp.**  
U.S. West  
P.O. Box 4358  
Houston, Texas 77210-4358

June 27, 2001

**ExxonMobil**  
*Production*

Mr. Jim Thompson  
State of Utah, Division of Oil, Gas and Mining  
1549 West North Temple  
Suite 1210  
Salt Lake City, UT 84114-5801

Change of Name – Mobil Oil Corporation to  
ExxonMobil Oil Corporation

Dear Mr. Thompson

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

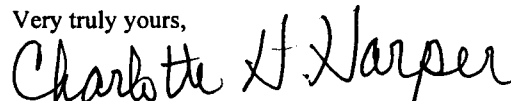
Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

A copy of the Certification, Bond Rider and a list of wells are attached.

If you have any questions please feel free to call Joel Talavera at 713-431-1010

Very truly yours,



Charlotte H. Harper  
Permitting Supervisor

ExxonMobil Production Company  
a division of Exxon Mobil Corporation,  
acting for ExxonMobil Oil Corporation

RECEIVED

JUN 29 2001  
DIVISION OF OIL, GAS AND MINING



IN REPLY REFER TO:

# United States Department of the Interior

BUREAU OF INDIAN AFFAIRS

NAVAJO REGION

P.O. Box 1060

Gallup, New Mexico 87305-1060

AUG 30 2001

RRES/543

## CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Charlotte H. Harper, Permitting Supervisor  
 Exxon Mobil Production Company  
 U. S. West  
 P. O. Box 4358  
 Houston, TX 77210-4358

Dear Ms. Harper:

This is to acknowledge receipt of your company's name change from Mobil Oil Corporation to ExxonMobil Oil Corporation effective June 1, 2001. The receipt of documents includes the Name Change Certification, current listing of Officers and Directors, Listing of Leases, Financial Statement, filing fees of \$75.00 and a copy of the Rider for Bond Number 8027 31 97. There are no other changes.

Please note that we will provide copies of these documents to other concerned parties. If you need further assistance, you may contact Ms. Bertha Spencer, Realty Specialist, at (928) 871-5938.

Sincerely,

DENNETT DENETSONE

Regional Realty Officer

cc: BLM, Farmington Field Office w/enclosures ✓  
 Navajo Nation Minerals Office, Attn: Mr. Akhtar Zaman, Director/w enclosures

MINERAL RESOURCES	
ADM 1	<i>DB/MC</i>
NATV AMIN COORD	
SOLID MIN TEAM	
PETRO MENT TEAM <i>2</i>	
O & G INSPECT TEAM	
ALL TEAM LEADERS	
LAND RESOURCES	
ENVIRONMENT	
FILES	

**ExxonMobil Production Company**  
U.S. West  
P.O. Box 4358  
Houston, Texas 77210-4358

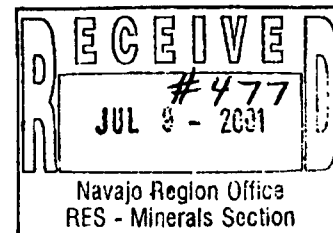
*ps 7/12/001*  
*SH*  
*593*  
*File*

June 27, 2001

**ExxonMobil**  
Production

Certified Mail  
Return Receipt Requested

Ms. Genni Denetsone  
United States Department of the Interior  
Bureau of Indian Affairs, Navajo Region  
Real Estate Services  
P. O. Box 1060  
Gallup, New Mexico 87305-1060  
Mail Code 543



Change of Name -  
Mobil Oil Corporation to  
ExxonMobil Oil Corporation

Dear Ms. Denetsone:

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

Attached is the Name Change Certification, Current listing of Officers and Directors, Filing Fee of \$75/-, Listing of Leases, Financial Statement and a copy of the Rider for Bond number 8027 31 97. The original Bond Rider has been sent to Ms. Barbar Davis at your Washington Office.

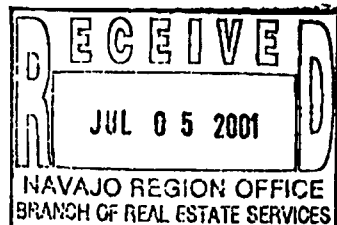
If you have any questions, please contact Alex Correa at (713) 431-1012.

Very truly yours,

*Charlotte H. Harper*

Charlotte H. Harper  
Permitting Supervisor

Attachments



ExxonMobil Production Company  
a division of Exxon Mobil Corporation,  
acting for ExxonMobil Oil Corporation

*NOTE: Check forwarded to Ella Isaac*

Bureau of Indian Affairs  
Navajo Region Office  
Attn: RRES - Mineral and Mining Section  
P.O. Box 1060  
Gallup, New Mexico 87305-1060

Gentlemen:

The current listing of officers and director of ExxonMobil Oil Corporation (Name of Corporation), of New York (State) is as follows:

OFFICERS

President	<u>F.A. Risch</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Vice President	<u>K.T. Koonce</u>	Address <u>800 Bell Street Houston, TX 77002</u>
Secretary	<u>F.L. Reid</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Treasure	<u>B.A. Maher</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>

DIRECTORS

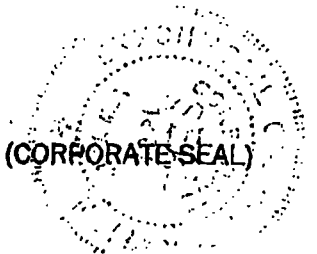
Name	<u>D.D. Humphreys</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>P.A. Hanson</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>T.P. Townsend</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>B.A. Maher</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>F.A. Risch</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>


Sincerely,



Alex Correa

This is to certify that the above information pertaining to ExxonMobil Oil Corporation (Corporation) is true and correct as evidenced by the records and accounts covering business for the State of Utah and in the custody of Corporation Service Company (Agent), Phone: 1 (800) 927-9800, whose business address is One Utah Center, 201 South Main Street, Salt Lake City, Utah 84111-2218



  
\_\_\_\_\_  
Signature  
AGENT AND ATTORNEY IN FACT  
\_\_\_\_\_  
Title

SAL

**CERTIFICATION**

I, the undersigned Assistant Secretary of ExxonMobil Oil Corporation. (formerly Mobil Oil Corporation), a corporation organized and existing under the laws of the State of New York, United States of America, DO HEREBY CERTIFY, That, the following is a true and exact copy of the resolutions adopted by the Board of Directors on May 22, 2001:

**CHANGE OF COMPANY NAME**

WHEREAS, the undersigned Directors of the Corporation deem it to be in the best interest of the Corporation to amend the Certificate of Incorporation of the Corporation to change the name and principal office of the Corporation:

NOW THEREFORE BE IT RESOLVED, That Article 1st relating to the corporate name is hereby amended to read as follows:

"1st The corporate name of said Company shall be,

ExxonMobil Oil Corporation",

FURTHER RESOLVED, That the amendment of the Corporation's Certificate of Incorporation referred to in the preceding resolutions be submitted to the sole shareholder of the Corporation entitled to vote thereon for its approval and, if such shareholder gives its written consent, pursuant to Section 803 of the Business Corporation Law of the State of New York, approving such amendment, the proper officers of the Corporation be, and they hereby are, authorized to execute in the name of the Corporation the Certificate of Amendment of Certificate of Incorporation, in the form attached hereto;

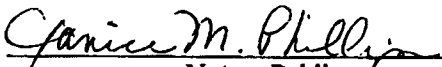
FURTHER RESOLVED, That the proper officers of the Corporation be and they hereby are authorized and directed to deliver, file and record in its behalf, the Certificate of Amendment of Certificate of Incorporation, and to take such action as may be deemed necessary or advisable to confirm and make effective in all respects the change of this Company's name to EXXONMOBIL OIL CORPORATION.

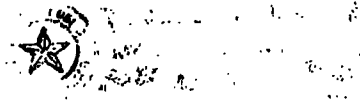
WITNESS, my hand and the seal of the Corporation at Irving, Texas, this 8th day of June, 2001.

  
Assistant Secretary

COUNTY OF DALLAS )  
STATE OF TEXAS )  
UNITED STATES OF AMERICA )

Sworn to and subscribed before me at Irving, Texas, U. S. A. on this the 8th day of June, 2001.

  
Notary Public



**LISTING OF LEASES OF MOBIL OIL CORPORATION****Lease Number**

- 1) 14-20-0603-6504
- 2) 14-20-0603-6505
- 3) 14-20-0603-6506
- 4) 14-20-0603-6508
- 5) 14-20-0603-6509
- 6) 14-20-0603-6510
- 7) 14-20-0603-7171
- 8) 14-20-0603-7172A
- 9) 14-20-600-3530
- 10) 14-20-603-359
- 11) 14-20-603-368
- 12) 14-20-603-370
- 13) 14-20-603-370A
- 14) 14-20-603-372
- 15) 14-20-603-372A
- 16) 14-20-603-4495
- 17) 14-20-603-5447
- 18) 14-20-603-5448
- 19) 14-20-603-5449
- 20) 14-20-603-5450
- 21) 14-20-603-5451

6/1/01

**CHUBB GROUP OF INSURANCE COMPANIES**

1000 West Loop South, Suite 1400, Houston, Texas 77027-3307  
Telephone: (713) 227-4600 • Facsimile: (713) 227-4750

*NW Bond*

**FEDERAL INSURANCE COMPANY RIDER**  
to be attached to and form a part of

**BOND NO 8027 31 97**

wherein

**Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc. is  
named as Principal and**

**FEDERAL INSURANCE COMPANY AS SURETY,**

**in favor of United States of America, Department of the Interior  
Bureau of Indian Affairs**

**in the amount of \$150,000.00  
bond date: 11/01/65**

**IT IS HEREBY UNDERSTOOD AND AGREED THAT effective June 1, 2001  
the name of the Principal is changed**

**FROM: Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc.**

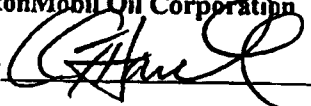
**TO : ExxonMobil Oil Corporation**

**All other terms and conditions of this Bond are unchanged.**

**Signed, sealed and dated this 12<sup>th</sup> of June, 2001.**


**ExxonMobil Oil Corporation**

By :



**FEDERAL INSURANCE COMPANY**

By:

  
**Mary Pierson, Attorney-in-fact**



**Chubb  
Surety****POWER  
OF  
ATTORNEY****Federal Insurance Company  
Vigilant Insurance Company  
Pacific Indemnity Company****Attn.: Surety Department  
15 Mountain View Road  
Warren, NJ 07059**

Know All by These Presents, That **FEDERAL INSURANCE COMPANY**, an Indiana corporation, **VIGILANT INSURANCE COMPANY**, a New York corporation, and **PACIFIC INDEMNITY COMPANY**, a Wisconsin corporation, do each hereby constitute and appoint **R.F. Bobo**,  
Mary Pierson, Philana Berros, and Jody E. Specht of Houston, Texas-----

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** have each executed and attested these presents and affixed their corporate seals on this 10th day of May, 2001.

  
Kenneth C. Wendel, Assistant Secretary

  
Frank E. Robertson, Vice President

STATE OF NEW JERSEY } ss.  
County of Somerset

On this 10th day of May, 2001, before me, a Notary Public of New Jersey, personally came Kenneth C. Wendel, to me known to be Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY**, the companies which executed the foregoing Power of Attorney, and the said Kenneth C. Wendel being by me duly sworn, did depose and say that he is Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By-Laws of said Companies; and that he signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that he is acquainted with Frank E. Robertson, and knows him to be Vice President of said Companies; and that the signature of Frank E. Robertson, subscribed to said Power of Attorney is in the genuine handwriting of Frank E. Robertson, and was thereto subscribed by authority of said Companies in the presence of me, the Notary Public.



Notary Public State of New Jersey  
No. 2231647

Commission Expires Oct. 28, 2004

  
Notary Public

Extract from the By-Laws of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY**:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-In-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, Kenneth C. Wendel, Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** (the "Companies") do hereby certify that

- (i) the foregoing extract of the By-Laws of the Companies is true and correct,
- (ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U. S. Treasury Department; further, Federal and Vigilant are licensed in Puerto Rico and the U. S. Virgin Islands, and Federal is licensed in American Samoa, Guam, and each of the Provinces of Canada except Prince Edward Island; and
- (iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this 12th day of June, 2001



  
Kenneth C. Wendel, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY  
Telephone (908) 903-3485 Fax (908) 903-3656 e-mail: surety@chubb.com

CSC

5184334741

06/01 '01 08:46 NO.410 03/05

CSC

06/01 '01 09:06 NO.135 02/04

F010601000187

CERTIFICATE OF AMENDMENT  
OF  
CERTIFICATE OF INCORPORATION  
OF  
MOBIL OIL CORPORATION

CSC 45

(Under Section 805 of the Business Corporation Law)

Pursuant to the provisions of Section 805 of the Business Corporation Law, the undersigned President and Secretary, respectively, of Mobil Oil Corporation hereby certify:

**FIRST:** That the name of the corporation is MOBIL OIL CORPORATION and that said corporation was incorporated under the name of Standard Oil Company of New York.

**SECOND:** That the Certificate of Incorporation of the corporation was filed by the Department of State, Albany, New York, on the 10th day of August, 1882.

**THIRD:** That the amendments to the Certificate of Incorporation effected by this Certificate are as follows:

(a) Article 1st of the Certificate of Incorporation, relating to the corporate name, is hereby amended to read as follows:

"1st The corporate name of said Company shall be,  
ExxonMobil Oil Corporation",

(b) Article 7th of the Certificate of Incorporation, relating to the office of the corporation is hereby amended to read as follows:

The office of the corporation within the State of New York is to be located in the County of Albany. The Company shall have offices at such other places as the Board of Directors may from time to time determine.

CSC  
CSC

5184334741

06/01 '01 08:47 NO.410 04/05  
06/01 '01 09:06 NO.133 03/04

FOURTH: That the amendments to the Certificate of Incorporation were authorized by the Board of Directors followed by the holder of all outstanding shares entitled to vote on amendments to the Certificate of Incorporation by written consent of the sole shareholder dated May 22, 2001.

IN WITNESS WHEREOF, this Certificate has been signed this 22nd Day of May, 2001.

  
F. A. Ritch, President 

STATE OF TEXAS       )  
COUNTY OF DALLAS    )

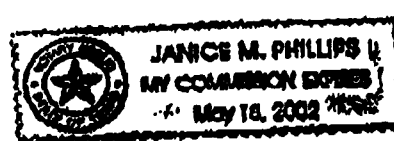
F. L. REID, being duly sworn, deposes and says that he is the Secretary of MOBIL OIL CORPORATION, the corporation mentioned and described in the foregoing instrument; that he has read and signed the same and that the statements contained therein are true.

  
F. L. REID, Secretary

SUBSCRIBED AND SWORN TO before me, the undersigned authority, on this the 22nd day of May, 2001.

[SEAL]

  
NOTARY PUBLIC, STATE OF TEXAS



=&gt; CSC

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06/01'01 08:19

CSC  
CSC

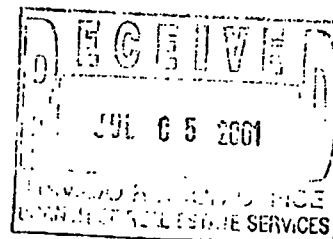
5184334741

06/01 '01 09:01 NO.411 02/02  
06/01 '01 09:06 NO.153 04/04  
**F010601000187****CSC 45****CERTIFICATE OF AMENDMENT****OF****MOBIL OIL CORPORATION**

Under Section 805 of the Business Corporation Law

*SAC***100 cc**  
**STATE OF NEW YORK**  
**DEPARTMENT OF STATE**Filed by: EXXONMOBIL CORPORATION  
(Name)

FILED JUN 01 2001

6949 Las Colinas Blvd.  
(Mailing address)TAX \$ \_\_\_\_\_  
BY: *SAC*Irving, TX 75039-2298  
(City, State and Zip code)*ny Albany**Cust Ref # 165578 MPJ***010601000195**

=&gt; CSC

TEL=5184334741

06/01'01 08:19

*State of New York     }  
Department of State } ss:*

*I hereby certify that the annexed copy has been compared with the original document in the custody of the Secretary of State and that the same is a true copy of said original.*

*Witness my hand and seal of the Department of State on* **JUN 01 2001**



*Special Deputy Secretary of State*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well  
☐ Oil Well ☐ Gas Well ☒ Other **INJECTION WELL**

2. Name of Operator  
**Mobil Producing TX. & N.M. Inc.**

3a. Address **P.O. Box 4358**  
**Houston TX 77210-4358**

3b. Phone No. (include area code)  
**(713) 431-1010**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**Sec. 18, T41S, R24E NE/SW 2385' FSL & 2040' FWL**

5. Lease Serial No.  
**14-20-603-247A -353**

6. If Indian, Allottee or Tribe Name  
**NAVAJO TRIBAL**

7. If Unit or CA/Agreement, Name and/or No.  
**RATHERFORD UNIT**

8. Well Name and No.  
**RATHERFORD UNIT 18W-23**

9. API Well No.  
**43-037-30244**

**GREATER ANETH**  
11. County or Parish, State  
**SAN JUAN UT**

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>Annular Pressure</b>
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including recalculation, have been completed, and the operator has determined that the site is ready for final inspection.)

We request approval for shut in status. Evaluating future use in flood.

This indicates a change of plans, as we will not temporarily abandon the wellbore as previously indicated.

This well was thought to have a casing integrity problem. Upon further investigation and re-testing of the well(See Attached), we determined that it did not have a problem.

Accepted by the  
Utah Division of  
Oil, Gas and Mining

Date: 10/18/01  
By: Doyle R. Dunt  
STATEX-1: 10/1/03

Federal Approval Of This  
Action Is Necessary

RECEIVED

OCT 19 2001

DIVISION OF  
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

**Joel O. Talavera**

Signature

Joel O. Talavera

Title

**Regulatory Specialist**

Date

**09/27/2001**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

10-18-01  
C.H.D.

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on Reverse)

**ANNULAR PRESSURE TEST**

(Mechanical Integrity Test)

Operator EXXON MOBIL US WEST Date of Test 8-8-2000Well Name RATHER FORD UNIT WELL #18W23 EPA Permit No. \_\_\_\_\_Location NE1/4 SW Sec 18, T41S, R24E Tribal Lease No. 14200603353State and County SAN JUAN COUNTY, UTAHContinuous Recorder? YES ☒ NO ☐ Pressure Gauge? YES ☒ NO ☐Bradenhead Opened? YES ☒ NO ☐ Fluid Flow? YES ☒ NO ☐

TIME	ANNULUS PRESSURE, psi		TUBING PRESSURE, psi
	0-3000 psi gauge	0-1500 psi recorder	0-5000 psi gauge
3:07 pm	1040	1030	2320
3:12 pm	1040	1029	2320
3:17 pm	1040	1025	2320
3:22 pm	1040	1025	2320
3:27 pm	1040	1025	2320
3:32 pm	1040	1025	2320
3:37 pm	1040	1025	2320

MAX. INJECTION PRESSURE: 3000 PSIMAX. ALLOWABLE PRESSURE CHANGE: 52.0 PSI (TEST PRESSURE X 0.05)REMARKS: Passed? Failed? If failed, cease injection until well passes MIT (40CFR§144.21(c)(6)).

Small amount of fluid from bradenhead was going to be bled off into truck by Exxon Mobil.

Inactive. Had ~~no~~ backside pressure.

Lost 150 psi on tubing, due to expansion.

Passed MIT

Confirmed w/ US EPA  
Jim Walker

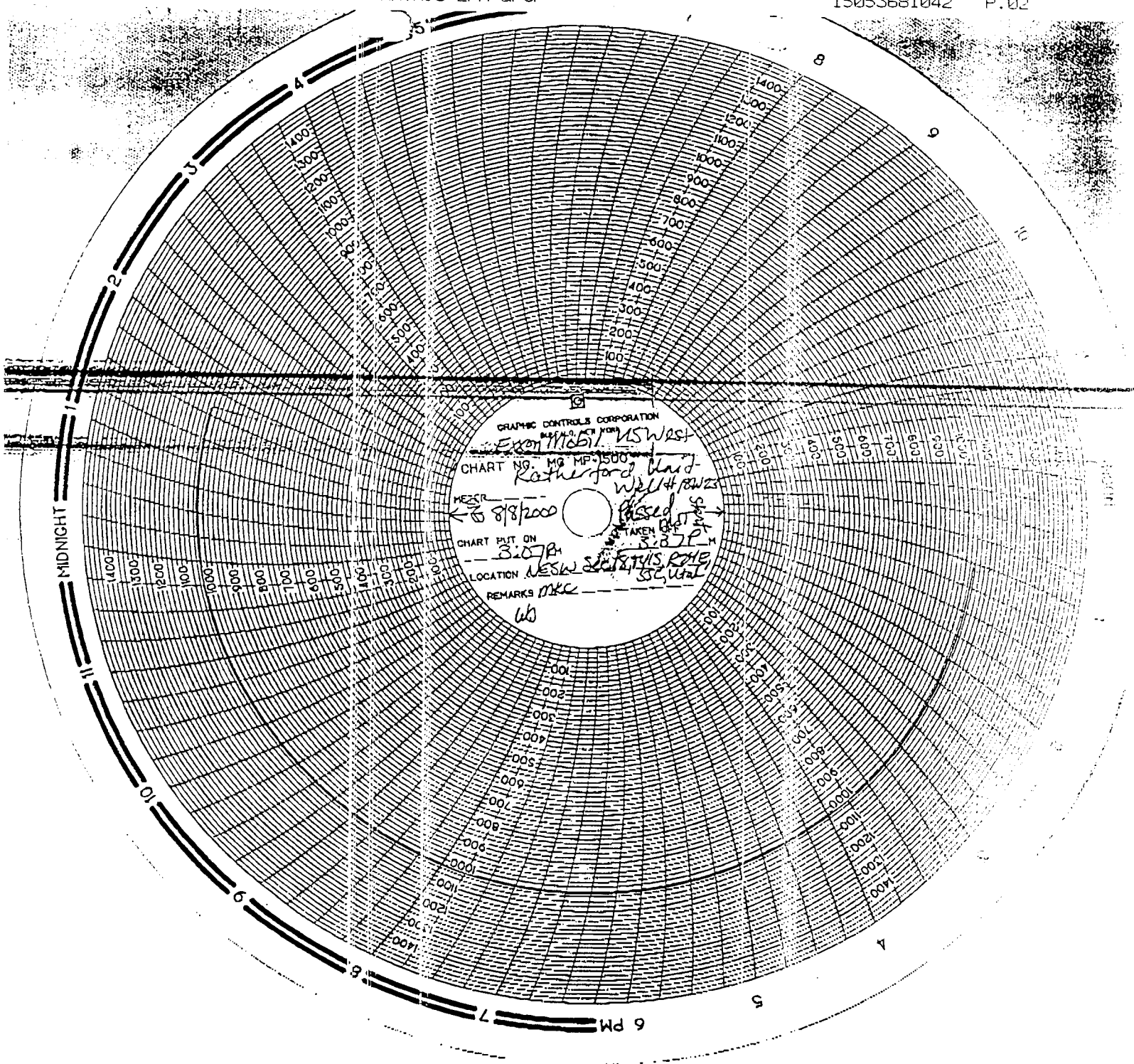
COMPANY REPRESENTATIVE: (Print and Sign)

DATE

Melvin K. Clah Melvin K. Clah

INSPECTOR: (Print and Sign)

DATE





Division of Oil, Gas and Mining

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☒ Well File \_\_\_\_\_  
Rutherford Unit Wells  
 (Loc.) Sec \_\_\_\_\_ Twp \_\_\_\_\_ Rng \_\_\_\_\_  
 (API No.) \_\_\_\_\_

☐ Suspense  
 (Return Date) \_\_\_\_\_  
 (To-Initials) \_\_\_\_\_

☐ Other  
 \_\_\_\_\_  
 \_\_\_\_\_

1. Date of Phone Call: \_\_\_\_\_ Time: \_\_\_\_\_

2. DOGM Employee (name) DUSTIN DOUCEY ( ☒ Initiated Call)  
 Talked to:

Name Steve Mason ( ☐ Initiated Call) - Phone No. (505) 599-6364  
 of (Company/Organization) BLM - Farmington

3. Topic of Conversation: SI/TA Extension - is it justified  
where do the BLM stand?

4. Highlights of Conversation: Called Steve 7/19/01 15:45 left message  
Steve returned call 7/20/01 @ 10:30. He has approved  
the SI/TA's. Said it is a small percentage of SI's in  
area (~~area~~ 23 of four 300 in area) They are making progress  
on plugging SI wells in area. It is taking a while  
to put SI's on Injection waiting on results etc.  
Adequate info has been provided to BLM according to Steve.

**OPERATOR CHANGE WORKSHEET****ROUTING**

1. GLH

2. CDW

3. FILE

Change of Operator (Well Sold)

Designation of Agent

**X Operator Name Change**

Merger

The operator of the well(s) listed below has changed, effective: **06-01-2001**

<b>FROM: (Old Operator):</b>	<b>TO: ( New Operator):</b>
MOBIL EXPLORATION & PRODUCTION	EXXONMOBIL OIL CORPORATION
Address: P O BOX DRAWER "G"	Address: U S WEST P O BOX 4358
CORTEZ, CO 81321	HOUSTON, TX 77210-4358
Phone: 1-(970)-564-5212	Phone: 1-(713)-431-1010
Account No. N7370	Account No. N1855

**CA No.****Unit:****RATHERFORD****WELL(S)**

NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
NAVAJO A-9 (RATHERFORD 16W23)	16-41S-24E	43-037-15722	99990	INDIAN	WI	A
NAVAJO A-12 (RATHERFORD 16W21)	16-41S-24E	43-037-16414	99990	INDIAN	WI	A
RATHERFORD 16W43	16-41S-24E	43-037-16415	99990	INDIAN	WI	A
RATHERFORD 17-W-12	17-41S-24E	43-037-15726	6280	INDIAN	WI	A
17-14	17-41S-24E	43-037-15727	6280	INDIAN	WI	A
RATHERFORD 17-W-23	17-41S-24E	43-037-15728	6280	INDIAN	WI	A
17-32	17-41S-24E	43-037-15729	6280	INDIAN	WI	A
17-34	17-41S-24E	43-037-15730	6280	INDIAN	WI	A
17-41	17-41S-24E	43-037-15731	6280	INDIAN	WI	I
RATHERFORD 17-W-21	17-41S-24E	43-037-16416	99990	INDIAN	WI	A
RATHERFORD 17W43	17-41S-24E	43-037-16417	99990	INDIAN	WI	A
RATHERFORD 18-W-14	18-41S-24E	43-037-15735	6280	INDIAN	WI	A
18-W-32	18-41S-24E	43-037-15736	6280	INDIAN	WI	A
RATHERFORD 18-W-34	18-41S-24E	43-037-15737	6280	INDIAN	WI	A
DESERT A-4 (RATHERFORD 18W41)	18-41S-24E	43-037-15738	99990	INDIAN	WI	A
DESERT A-3 (RATHERFORD 18-W-21)	18-41S-24E	43-037-16418	99990	INDIAN	WI	A
18-23	18-41S-24E	43-037-30244	6280	INDIAN	WI	A
RATHERFORD U 18-W-12 (SDTRK)	18-41S-24E	43-037-31153	6280	INDIAN	WI	A
RATHERFORD UNIT 18-W-43B	18-41S-24E	43-037-31718	6280	INDIAN	WI	A
RATHERFORD U 19-W-12	19-41S-24E	43-037-15739	6280	INDIAN	WI	A

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/29/2001
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/29/2001
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 04/09/2002
4. Is the new operator registered in the State of Utah: YES Business Number: 579865-0143
5. If **NO**, the operator was contacted on: N/A

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BIA-06/01/01

7. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 06/01/2001

8. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

**NOTE: EPA ISSUES UIC PERMIT**

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 04/11/2002
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 04/11/2002
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

**STATE WELL(S) BOND VERIFICATION:**

1. State well(s) covered by Bond Number: N/A

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: N/A

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: 80273197

**FEE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A
2. The **FORMER** operator has requested a release of liability from their bond on: N/A  
The Division sent response by letter on: N/A

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

**COMMENTS:**

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. DJJ

2. CDW

**X Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

**6/1/2006**

**FROM: (Old Operator):**  
 N1855-ExxonMobil Oil Corporation  
 PO Box 4358  
 Houston, TX 77210-4358  
 Phone: 1 (281) 654-1936

**TO: ( New Operator):**  
 N2700-Resolute Natural Resources Company  
 1675 Broadway, Suite 1950  
 Denver, CO 80202  
 Phone: 1 (303) 534-4600

**CA No.**

**Unit:**

**RATHERFORD (UIC)**

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/21/2006
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/24/2006
3. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/7/2006
4. Is the new operator registered in the State of Utah: YES Business Number: 5733505-0143
5. If **NO**, the operator was contacted on: \_\_\_\_\_
- 6a. (R649-9-2) Waste Management Plan has been received on: requested
- 6b. Inspections of LA PA state/fee well sites complete on: n/a
- 6c. Reports current for Production/Disposition & Sundries on: ok
7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM n/a BIA not yet
8. **Federal and Indian Units:**  
 The BLM or BIA has approved the successor of unit operator for wells listed on: not yet
9. **Federal and Indian Communization Agreements ("CA"):**  
 The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/12/2006

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 6/22/2006
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/22/2006
3. Bond information entered in RBDMS on: n/a
4. Fee/State wells attached to bond in RBDMS on: n/a
5. Injection Projects to new operator in RBDMS on: 6/22/2006
6. **Receipt of Acceptance of Drilling Procedures for APD/New** on: n/a

**BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: n/a
2. Indian well(s) covered by Bond Number: PA002769
3. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a
- a. The **FORMER** operator has requested a release of liability from their bond on: n/a  
 The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

4. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

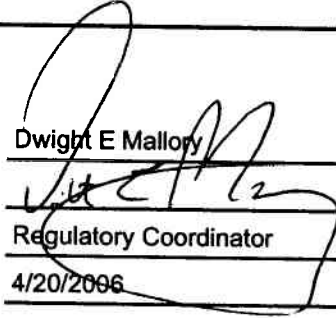
Well Name and Number See attached list	API Number Attached
Location of Well Footage: See attached list County: San Juan QQ, Section, Township, Range: State: UTAH	Field or Unit Name Ratherford Unit Lease Designation and Number See attached list

EFFECTIVE DATE OF TRANSFER: 6/1/2006


CURRENT OPERATOR

Company: Exxon Mobil Oil Corporation  
Address: PO Box 4358  
city Houston state TX zip 77210-4358  
Phone: (281) 654-1936  
Name: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_  
Comments: Exxon Mobil has submitted a separate, signed copy of UIC Form 5

NEW OPERATOR

Company: Resolute Natural Resources Company  
Address: 1675 Broadway, Suite 1950  
city Denver state CO zip 80202  
Phone: (303) 534-4600  
Name: Dwight E Mallory  
Signature:   
Title: Regulatory Coordinator  
Date: 4/20/2006  
Comments: A list of affected UIC wells is attached.  
New bond numbers for these wells are:  
BIA Bond # PA002769 and US EPA Bond # B001252

(This space for State use only)

Transfer approved by:   
Title: Field Operations Manager

Approval Date: 6/12/06

Comments:

RECEIVED  
APR 24 2006

DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Unit Agreement</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: See attached list
2. NAME OF OPERATOR: Resolute Natural Resources Company <u>N2700</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo Tribe
3. ADDRESS OF OPERATOR: 1675 Broadway, Suite 1950 CITY Denver STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME: Ratherford Unit
4. LOCATION OF WELL FOOTAGES AT SURFACE: <u>See attached list</u>		8. WELL NAME and NUMBER: See attached list
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <u>                    </u>		9. API NUMBER: Attached
COUNTY: <u>San Juan</u>		10. FIELD AND POOL, OR WILDCAT: Greater Aneth
STATE: <u>UTAH</u>		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 1, 2006 Exxon Mobil Oil Corporation resigns as operator of the Ratherford Unit. Also effective June 1, 2006 Resolute Natural Resources Company is designated as successor operator of the Ratherford Unit.

A list of affected producing and water source wells is attached. A separate of affected injection wells is being submitted with UIC Form 5, Transfer of Authority to Inject.

As of the effective date, bond coverage for the affected wells will transfer to BIA Bond # PA002769.

NAME (PLEASE PRINT) Dwight E Mallory

TITLE Regulatory Coordinator

SIGNATURE Dwight E Mallory

DATE 4/20/2006

(This space for State use only)

APPROVED 6127106

Earlene Russell

Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

RECEIVED

APR 24 2006

DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Injection</u>		5. LEASE DESIGNATION AND SERIAL NUMBER:  
2. NAME OF OPERATOR: ExxonMobil Oil Corporation <u>N1855</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <u>Ship Rock</u>
3. ADDRESS OF OPERATOR: P.O. Box 4358 CITY <u>Houston</u> STATE <u>TX</u> ZIP <u>77210-4358</u>		7. UNIT or CA AGREEMENT NAME: <u>UTU68931A</u>
PHONE NUMBER: <u>(281) 654-1936</u>		8. WELL NAME and NUMBER: <u>Ratherford</u>
4. LOCATION OF WELL FOOTAGES AT SURFACE:  QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		9. API NUMBER: <u>attached</u>
		10. FIELD AND POOL, OR WILDCAT: <u>Aneth</u>

COUNTY: San Juan

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>6/1/2006</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ExxonMobil Oil Corporation is transferring operatorship of Greater Aneth field, Ratherford lease to Resolute Natural Resources Company. All change of operator notices should be made effective as of 7:00 AM MST on June 1, 2006.

Attached please find a listing of injection wells included in the transfer.

NAME (PLEASE PRINT) <u>Laurie Kilbride</u>	TITLE <u>Permitting Supervisor</u>
SIGNATURE <u>Laurie Kilbride</u>	DATE <u>4/19/2006</u>

(This space for State use only)

APPROVED 6/27/06  
Earlene Russell  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician  
(See Instructions on Reverse Side)

RECEIVED  
APR 21 2006

**GREATER ANETH FIELD UIC WELL LIST**  
**Ratherford lease, San Juan County, Utah**

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location							
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot	
RATHERFORD UNIT	1W24	430371583900S1	Shut-in	14-20-603-246A	NE	SE	1	41S	23E	0651FSL	3300FEL	
RATHERFORD UNIT	2W44	430371638600S1	Active	14-20-603-246A	SE	SE	2	41S	23E	0810FSL	0510FEL	
RATHERFORD UNIT	11W42	430371584100S1	Active	14-20-603-246A	SE	NE	11	41S	23E	3290FSL	4617FWL	
RATHERFORD UNIT	11W44	430371584200S1	Shut-in	14-20-603-246A	SE	SE	11	41S	23E	0660FSL	0558FEL	
RATHERFORD UNIT	12W11	430371584300S1	Active	14-20-603-246A	NW	NW	12	41S	23E	0678FNL	4620FEL	
RATHERFORD UNIT	12W13	430371640400S1	Active	14-20-603-246A	NW	SW	12	41S	23E	1980FSL	4620FEL	
RATHERFORD UNIT	12W22	430371584501S1	Active	14-20-603-246A	SE	NW	12	41S	23E	1920FNL	2080FWL	
RATHERFORD UNIT	12W24	430373115101S1	Active	14-20-603-246A	SE	SW	12	41S	23E	0775FSL	1980FWL	
RATHERFORD UNIT	12W31	430371584700S1	Active	14-20-603-246A	NW	NE	12	41S	23E	0661FNL	1981FEL	
RATHERFORD UNIT	12W33	430371584800S1	Active	14-20-603-246A	NW	SE	12	41S	23E	1958FSL	3300FEL	
RATHERFORD UNIT	12W42	430371585000S1	Active	14-20-603-246A	SE	NE	12	41S	23E	3275FSL	0662FEL	
RATHERFORD UNIT	12W44A	430373154300S1	Shut-in	14-20-603-246A	SE	SE	12	41S	23E	0772FSL	0807FEL	
RATHERFORD UNIT	13W11	430373115201S1	Active	14-20-603-247A	NW	NW	13	41S	23E	0500FNL	0660FWL	
RATHERFORD UNIT	13W13	430371585100S1	Active	14-20-603-247A	NW	SW	13	41S	23E	1980FSL	4620FEL	
RATHERFORD UNIT	13W22	430371585200S1	Active	14-20-603-247A	SE	NW	13	41S	23E	1988FNL	3300FEL	
RATHERFORD UNIT	13W24	430371585300S1	Active	14-20-603-247A	SE	SW	13	41S	23E	0660FSL	3300FEL	
RATHERFORD UNIT	13W33	430371585501S1	Active	14-20-603-247A	NW	SE	13	41S	23E	1970FSL	1979FEL	
RATHERFORD UNIT	13W42	430371585700S1	Shut-in	14-20-603-247A	SE	NE	13	41S	23E	2139FNL	0585FEL	
RATHERFORD UNIT	13W44	430371640700S1	Active	14-20-603-247A	SE	SE	13	41S	23E	0653FSL	0659FEL	
RATHERFORD UNIT	14-31	430373171700S1	Active	14-20-603-247A	NW	NE	14	41S	23E	0754FNL	1604FEL	
RATHERFORD UNIT	14W42	430371586001S1	Active	14-20-603-247A	SE	NE	14	41S	23E	1976FNL	653FEL	
RATHERFORD UNIT	24W31	430371586200S1	Shut-in	14-20-603-247A	NW	NE	24	41S	24E	0560FNL	1830FEL	
RATHERFORD UNIT	24W42	430371586300S1	Shut-in	14-20-603-247A	SE	NE	24	41S	24E	1980FNL	0660FEL	
RATHERFORD UNIT	17W12	430371572601S1	Active	14-20-603-353	SW	NW	17	41S	24E	1980FNL	510FWL	
RATHERFORD UNIT	17W14	430371572700S1	Active	14-20-603-353	SW	SW	17	41S	24E	0610FSL	0510FWL	
RATHERFORD UNIT	17W21	430371641601S1	Active	14-20-603-353	NE	NW	17	41S	24E	0510FNL	1830FWL	
RATHERFORD UNIT	17W23	430371572801S1	Active	14-20-603-353	NE	SW	17	41S	24E	1880FSL	1980FWL	
RATHERFORD UNIT	17W32	430371572900S1	TA'd	14-20-603-353	SW	NE	17	41S	24E	1830FNL	2030FEL	
RATHERFORD UNIT	17W34	430371573000S1	Active	14-20-603-353	SW	SE	17	41S	24E	0560FSL	1880FEL	
RATHERFORD UNIT	17W41	430371573100S1	Shut-in	14-20-603-353	NE	NE	17	41S	24E	0610FNL	0510FEL	
RATHERFORD UNIT	17W43	430371641701S1	Active	14-20-603-353	NE	SE	17	41S	24E	1980FSL	0660FEL	
RATHERFORD UNIT	18-43B	430373171801S1	Active	14-20-603-353	NE	SE	18	41S	24E	2023FSL	0651FEL	
RATHERFORD UNIT	18W12	430373115301S1	Active	14-20-603-353	SW	NW	18	41S	24E	1980FNL	560FWL	
RATHERFORD UNIT	18W14	430371573501S1	Active	14-20-603-353	SW	SW	18	41S	24E	0810FSL	0600FWL	
RATHERFORD UNIT	18W21	430371641801S1	Active	14-20-603-353	NE	NW	18	41S	24E	660FNL	1882FWL	
RATHERFORD UNIT	18W23	430373024400S1	Shut-in	14-20-603-353	NE	SW	18	41S	24E	2385FSL	2040FWL	
RATHERFORD UNIT	18W32	430371573601S1	Active	14-20-603-353	SW	NE	18	41S	24E	2140FNL	1830FEL	
RATHERFORD UNIT	18W34	430371573701S1	Active	14-20-603-353	SW	SE	18	41S	24E	780FSL	1860FEL	
RATHERFORD UNIT	18W41	430371573800S1	TA'd	14-20-603-353	NE	NE	18	41S	24E	0660FNL	0660FEL	
RATHERFORD UNIT	19-12	430371573901S1	Active	14-20-603-353	SW	NW	19	41S	24E	1980FNL	0600FWL	
RATHERFORD UNIT	19-32	430371574301S1	Active	14-20-603-353	SW	NE	19	41S	24E	2717FNL	2802FEL	
RATHERFORD UNIT	19-34	430371574401S1	Active	14-20-603-353	SW	SE	19	41S	24E	0660FSL	1980FEL	
RATHERFORD UNIT	19W21	430371574100S1	Shut-in	14-20-603-353	NE	NW	19	41S	24E	0660FNL	1860FWL	
RATHERFORD UNIT	19W23	430371574200S1	Shut-in	14-20-603-353	NE	SW	19	41S	24E	2080FSL	1860FWL	
RATHERFORD UNIT	19W43	430371642000S1	Shut-in	14-20-603-353	NE	SE	19	41S	24E	1980FSL	0760FEL	
RATHERFORD UNIT	20-12	430371574601S1	Active	14-20-603-353	SW	NW	20	41S	24E	0709FNL	0748FEL	
RATHERFORD UNIT	20-14	430371574701S1	Active	14-20-603-353	SW	SW	20	41S	24E	0660FSL	0660FWL	
RATHERFORD UNIT	20-32	430371574901S1	Active	14-20-603-353	SW	NE	20	41S	24E	0037FNL	0035FWL	
RATHERFORD UNIT	20-34	430371575001S1	Active	14-20-603-353	SW	SE	20	41S	24E	0774FNL	0617FWL	
RATHERFORD UNIT	20-67	430373159000S1	Active	14-20-603-353	NE	SW	20	41S	24E	2629FSL	1412FWL	
RATHERFORD UNIT	20W21	430371642300S1	Active	14-20-603-353	NE	NW	20	41S	24E	0660FNL	1880FWL	
RATHERFORD UNIT	20W23	430371574800S1	Active	14-20-603-353	NW	SW	20	41S	24E	2080FSL	2120FWL	
RATHERFORD UNIT	20W41	430371575100S1	Active	14-20-603-353	NE	NE	20	41S	24E	0660FNL	0660FEL	
RATHERFORD UNIT	20W43	430371642400S1	TA'd	14-20-603-353	NE	SE	20	41S	24E	2070FSL	0810FEL	
RATHERFORD UNIT	16W12	430371572000S1	Active	14-20-603-355	SW	NW	16	41S	24E	1880FNL	0660FWL	



**GREATER ANETH FIELD UIC WELL LIST**  
**Ratherford lease, San Juan County, Utah**

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location						
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot
RATHERFORD UNIT	16W14	430371572100S1	Shut-in	14-20-603-355	SW	SW	16	41S	24E	0660FSL	0660FWL
RATHERFORD UNIT	16W21	430371641400S1	Active	14-20-603-355	NE	NW	16	41S	24E	0660FNL	1880FWL
RATHERFORD UNIT	16W23	430371572201S1	Active	14-20-603-355	NE	SW	16	41S	24E	1980FSL	1980FWL
RATHERFORD UNIT	16W43	430371641501S1	Active	14-20-603-355	NE	SE	16	41S	24E	2140FSL	0820FEL
RATHERFORD UNIT	21-14	430371575301S1	Active	14-20-603-355	SW	SW	21	41S	24E	0660FSL	0460FWL
RATHERFORD UNIT	21-67	430373175301S1	Active	14-20-603-355	NE	SW	21	41S	24E	2560FSL	1325FWL
RATHERFORD UNIT	21W21	430371642501S1	Active	14-20-603-355	NE	NW	21	41S	24E	0660FNL	2030FWL
RATHERFORD UNIT	6W14	430371598400S1	Active	14-20-603-368	NE	SE	6	41S	24E	0660FSL	0660FWL
RATHERFORD UNIT	7W12	430371598500S1	Active	14-20-603-368	NE	SE	7	41S	24E	2140FNL	0585FWL
RATHERFORD UNIT	7W14	430371598600S1	Active	14-20-603-368	NE	SE	7	41S	24E	1065FSL	0660FWL
RATHERFORD UNIT	7W21	430371639400S1	Active	14-20-603-368	NE	NW	7	41S	24E	0710FNL	1820FWL
RATHERFORD UNIT	7W34	430371598900S1	Active	14-20-603-368	SW	SE	7	41S	24E	0710FSL	2003FEL
RATHERFORD UNIT	7W43	430371639500S1	Active	14-20-603-368	NE	SE	7	41S	24E	2110FSL	0660FEL
RATHERFORD UNIT	8W14	430371599200S1	Active	14-20-603-368	SW	NE	8	41S	24E	0745FSL	0575FWL
RATHERFORD UNIT	10W43	430371640300S1	TA'd	14-20-603-4037	NE	SE	10	41S	24E	1980FSL	0550FEL
RATHERFORD UNIT	29-12	430371533701S1	Active	14-20-603-407	SW	NW	29	41S	24E	2870FNL	1422FWL
RATHERFORD UNIT	29-32	430371533901S1	Active	14-20-603-407	SW	NE	29	41S	24E	0694FNL	0685FWL
RATHERFORD UNIT	29W21	430371643200S1	Active	14-20-603-407	NE	NW	29	41S	24E	0667FNL	2122FWL
RATHERFORD UNIT	29W41	430371643300S1	Active	14-20-603-407	NE	NE	29	41S	24E	0557FNL	0591FEL
RATHERFORD UNIT	29W43	430371643400S1	Shut-in	14-20-603-407	NE	SE	29	41S	24E	1980FSL	0660FEL
RATHERFORD UNIT	30W41	430371534300S1	Shut-in	14-20-603-407	NE	NE	30	41S	24E	0660FNL	0660FEL
RATHERFORD UNIT	28-12	430371533601S1	Active	14-20-603-409	SW	SE	28	41S	24E	2121FNL	0623FWL
RATHERFORD UNIT	28W21	430371643100S1	Shut-in	14-20-603-409	NE	NW	28	41S	24E	0660FNL	2022FWL
RATHERFORD UNIT	9W23	430371639800S1	Active	14-20-603-5046	NW	SE	9	41S	24E	1980FSL	1980FWL

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-603-353			
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> NAVAJO			
<b>2. NAME OF OPERATOR:</b> RESOLUTE NATURAL RESOURCES		<b>7. UNIT or CA AGREEMENT NAME:</b> RATHERFORD			
<b>3. ADDRESS OF OPERATOR:</b> 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535		<b>8. WELL NAME and NUMBER:</b> 18-23			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2385 FSL 2040 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 18 Township: 41.0S Range: 24.0E Meridian: S		<b>9. API NUMBER:</b> 43037302440000			
<b>9. FIELD and POOL or WILDCAT:</b> GREATER ANETH		<b>COUNTY:</b> SAN JUAN			
<b>STATE:</b> UTAH					
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
<b>TYPE OF SUBMISSION</b>  <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 8/7/2015  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<b>TYPE OF ACTION</b>  <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input checked="" type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION            OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input checked="" type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input checked="" type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  Resolute Natural Resources respectfully submits this sundry as notice of acid treatment on the above well. Attached are the procedures and schematic					
<b>Accepted by the          Utah Division of          Oil, Gas and Mining</b>  <b>Date:</b> August 06, 2015 <b>By:</b>					
<b>NAME (PLEASE PRINT)</b> Erin Joseph		<b>PHONE NUMBER</b> 303 573-4886			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Sr. Regulatory Analyst			
		<b>DATE</b> 8/4/2015			

# **Resolute**

## **Natural Resources**

### **RU Injection Well 18W-23 Bullhead Acid Stimulation**

#### **Procedure**

**Horsley-Witten:** Not Applicable.

1. Check crown valve & wing valve for integrity before rigging up.
2. MIRU frac tank, manifold & hard line for flowback. RU ABC shower trailer.
3. Backflow the well for ~400 bbls, or until significant gas appears, or well dies, then shut in.
4. RU pumping equipment to wellhead & PT lines. Record TP, CP, Bradenhead P (BHP).
5. Pump 400 gal xylene, 2000 gal inhibited 20% HCl, followed by 27 bbls produced water displacement, stopping for 30 min soak after xylene "turns the corner" into perfs (24.0 bbls behind xylene). **Pump displacement volume at max rate possible, staying under 3000 psi TP.** Monitor CP & BHP while pumping.
6. Rig down pumping equipment. Allow 2 hrs minimum soak time after acid displacement before returning to injection.
7. Notify Pierce Benally (435) 619-7227 that the well is ready to return to injection.
8. Open the well to injection; Record the initial injection rate and tubing pressure.

**RATHERFORD UNIT # 18W-23**

GREATER ANETH FIELD

2385' FSL &amp; 2040' FWL

SEC 18-T41S-R24E

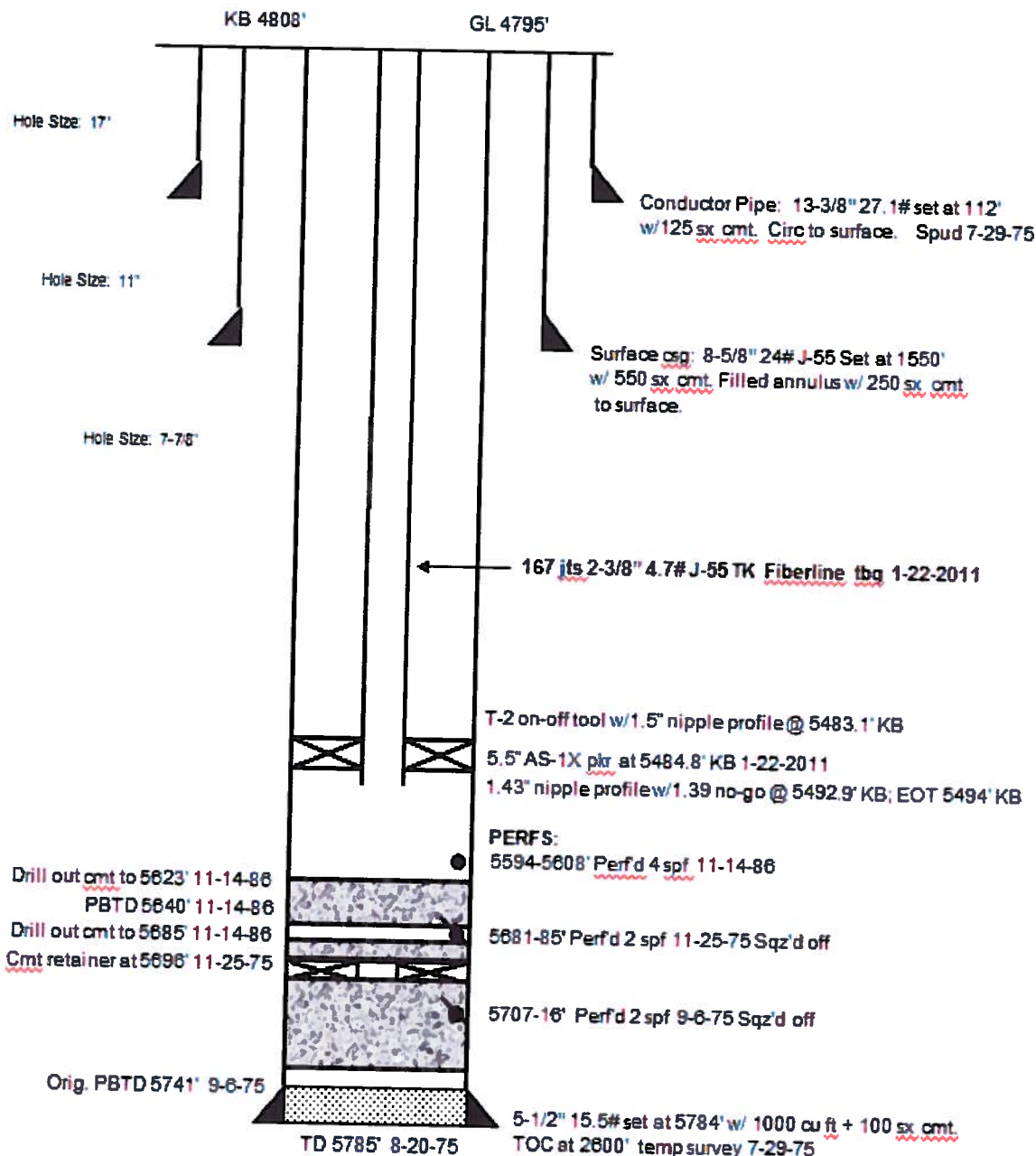
SAN JUAN COUNTY, UTAH

API 43-037-30244

PRISM 0043066

**INJECTOR**Capacities: bbl/ft gal/ft cu ft/ft

2-7/8" 6.5#	.00579	.2431	.0325
5-1/2" 15.5#	.0238	.9987	.1336
2-7/8" 5.5" 15.5#	.0158	.6625	.0886



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-603-353
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> NAVAJO
<b>2. NAME OF OPERATOR:</b> RESOLUTE NATURAL RESOURCES		<b>7. UNIT or CA AGREEMENT NAME:</b> RATHERFORD
<b>3. ADDRESS OF OPERATOR:</b> 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535		<b>8. WELL NAME and NUMBER:</b> 18-23
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2385 FSL 2040 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 18 Township: 41.0S Range: 24.0E Meridian: S		<b>9. API NUMBER:</b> 43037302440000
<b>PHONE NUMBER:</b> 303 534-4600 Ext		<b>9. FIELD and POOL or WILDCAT:</b> GREATER ANETH
<b>COUNTY:</b> SAN JUAN		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input checked="" type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/25/2015	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  Resolute Natural Resources respectfully submit this sundry as notice that the acid treatment on the above well was completed on 8/25/15		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> January 06, 2016		
<b>NAME (PLEASE PRINT)</b> Erin Joseph	<b>PHONE NUMBER</b> 303 573-4886	<b>TITLE</b> Sr. Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/5/2016	